CARVIN PROFESSIONAL INSTRUMENTS

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Dear Customer,

Since 1946 the Carvin Mfg. Co. has been manufacturing musical instruments for the professional musician. All instruments and amplifiers are handcrafted from the finest materials and workmanship available today. The Carvin people maintain an engineering staff that constantly develops the sound and performance that professionals demand. Each instrument and amplifier is thoroughly inspected and performance-tested. Specifications and ratings are exactly what you can expect when you receive your instrument.

In addition to our professional standards, we sell our product direct to the consumer at Mfg. Direct Prices for tremendous savings. The United States Disbribution Code for Trade states that the average manufacturer receives approximately 34% (cost of product and profit for its product. 16% is added by a marketing agency or jobber, who then sells the instruments direct to the music dealer. This accounts for ½ of the total selling price. All music dealers then receive 50% for selling the merchandise. This procedure accounts for professional instruments selling at their extremely high prices.

However, we receive the usual 34% manufacturers rate plus the 16% marketing percentage, which together equals the Mfg. Direct Price or approximately a 50% saving. Thus our product is not available at your dealer. If our product were, you would be paying the list prices in this catalog. On items such as speakers and Echo-tape machines we can only save you approximately 20%-35% off the list prices, because we do not manufacture these items.

All merchandise is sold with a money back guarantee. After you have received your order, try it and use it in your home or with your group for 10 days. If our product does not meet the suggested list prices or if you are not 100% satisfied with performance or construction, return merchandise on same transportation carrier and your full payment will be refunded immediately upon our receipt of merchandise with no questions asked. It is our policy to ship only factory fresh merchandise for your 100% satisfaction.

We hope that this letter has answered your questions about our sales policy. We are more than anxious to answer any further questions you may have about us or our product. We are a member of the Better Business Bureau and are proud to have satisfied over 95% of our previous customers. We feel that we can satisfy your professional requirements.

Sincerely,

CARVIN MFG. CO.

C.L. Kiesel, Vice-President

Make a joyful noise unto the Lord, all the earth: make a loud noise, and rejoice, and sing praise.
Sing unto the Lord with the harp, and the voice of a psalm.
Psalm 98:4,5

The Carvin Co. has supplied Professional Instruments to thousands of groups throughout the United States and Canada. Many of these professional groups use Carvin equipment exclusively. The following letter is one of many letters received by us regarding our merchandise.

Carvin Musical Instrument Company
Escondido, California 92025

Dear Sir:

Two years ago I purchased a Band Leader Amp from you. I am playing six nights a week now and the amp out plays all of my others, (Fender, Sunn, and Ampeg). You people make great amps!
Will you please send me your new catalog, as I am very interested in buying a new unit from you.

Thank you,
Lloyd Rea, Jr.
Baker, Oregon 97814

Comments from Professional Players

Our Carvin P.A. System delivers excellent tonal qualities and power, beautiful construction and excellent service. We are very pleased. Amerson Brothers – Butler, Penn.

My AS50B guitar exceeds name brand guitars costing over twice as much. Lee Downs – Nashville, Tenn.

My Lead Master Amp is fantastic! I wasn't sure about your company at first, but now I am. Rick Rohlman – Indianapolis, Ind.

The SB60 is the best bass I've ever owned. It's better than any Gibson or Fender I've ever had. Scott Runyan – Memphis, Tenn.

The BM355 is a superior amp in every respect than amps sold in music stores at twice the price. Thomas Cry – Van Buren, Maine.

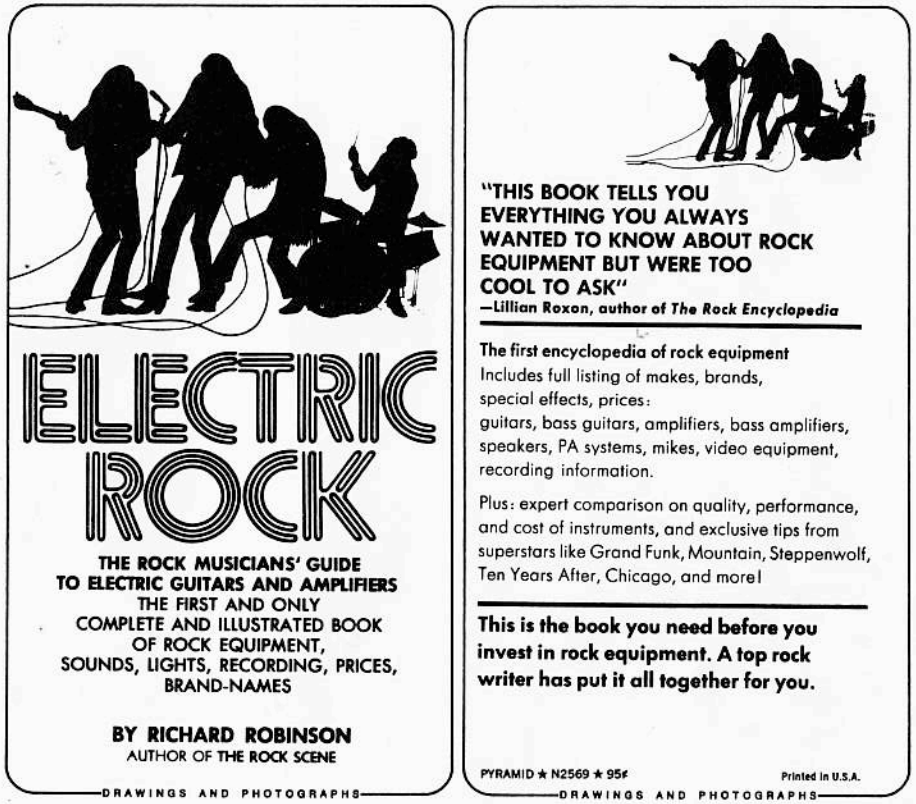
The SS75 guitar is every bit as good as advertised or better. Sound is Excellent – Construction Flawless. Tyre Cassidy – Edwards, III.

The BL1250 amp is exceptional in all areas – construction, sound, and power. James Craft – San Diego, Cal.

I have been a user of Carvin Instruments since 1949 and am very satisfied with the improvements made. Elton Comier – Church Point, La.

The Book "Electric Rock" may be of help to musicians who are not familiar with Carvin products as we are evaluated throughout this book.

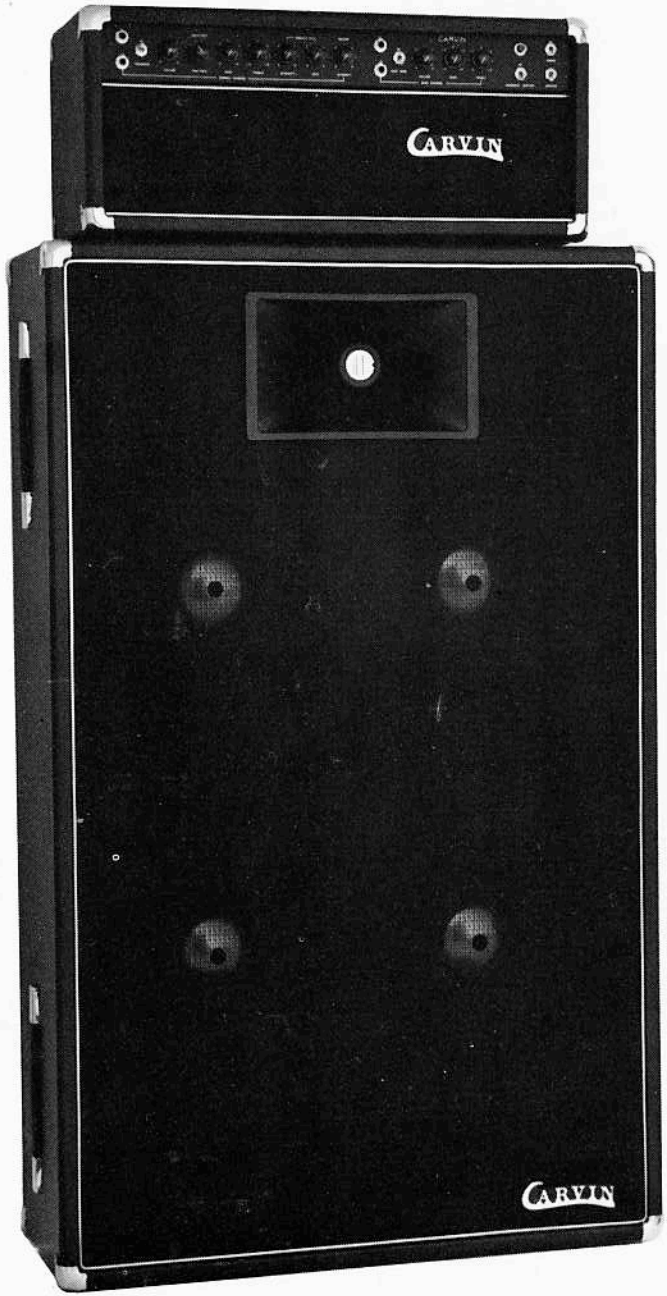
"Electric Rock" by Richard Robinson is highly recommended for new groups or groups interested in purchasing new equipment. 224 pages are devoted to suggestions and evaluation of all Brands of P.A. Systems, Amplifiers, Guitars, Etc. sold in the USA.



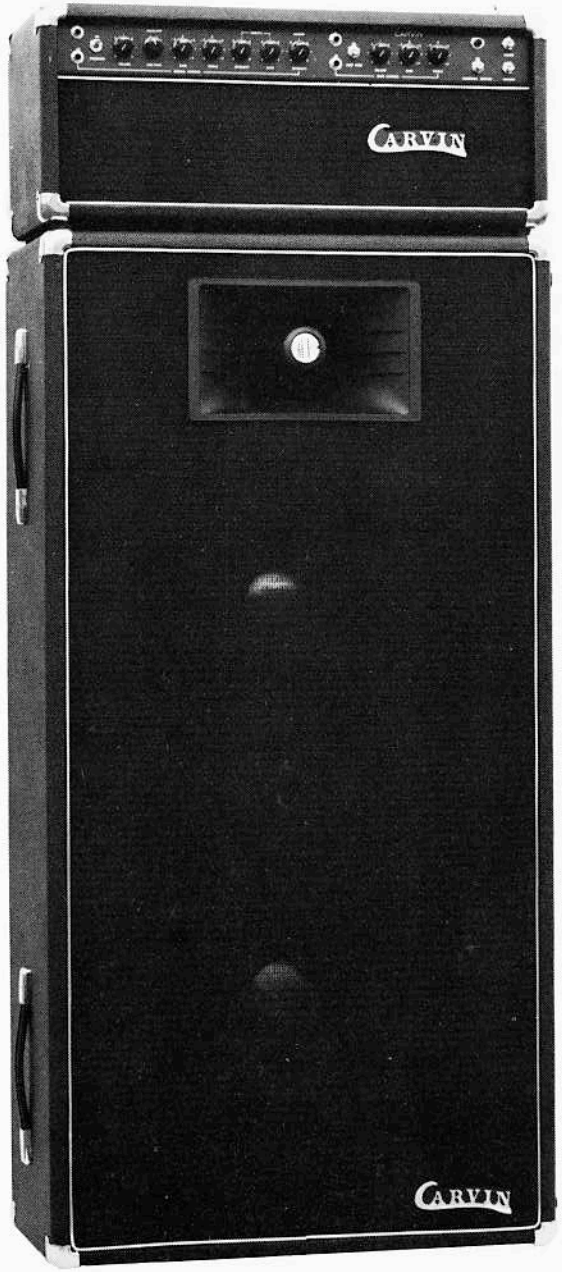
Front & Rear Cover

For your copy, send to us for "Electric Rock" Pyramid #N2569 and enclose .60¢ for postage and handling. The normal selling price of this book is .95¢.

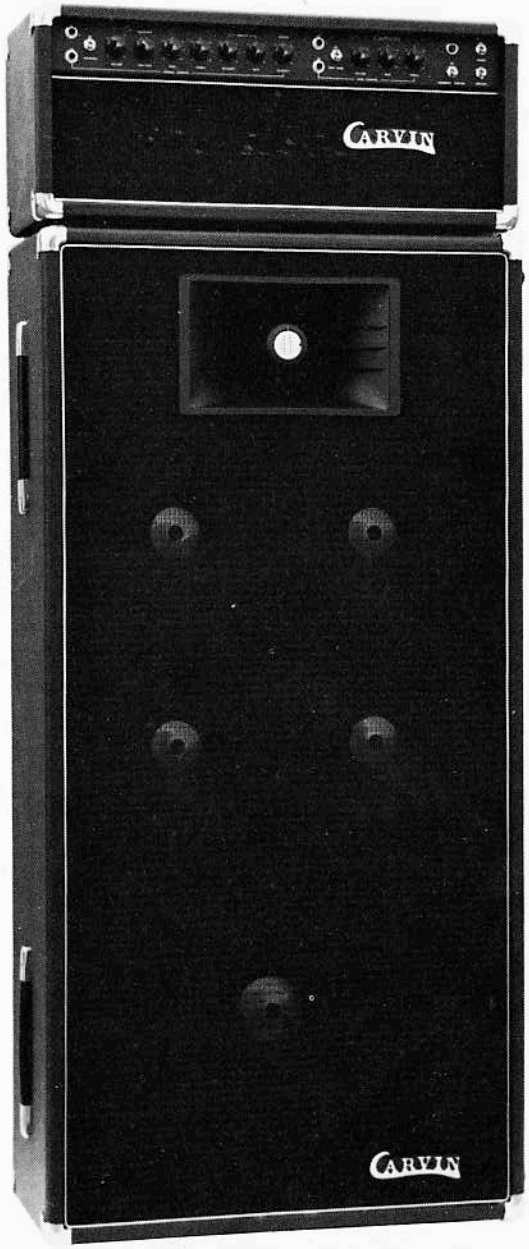
High Powered



LM1000



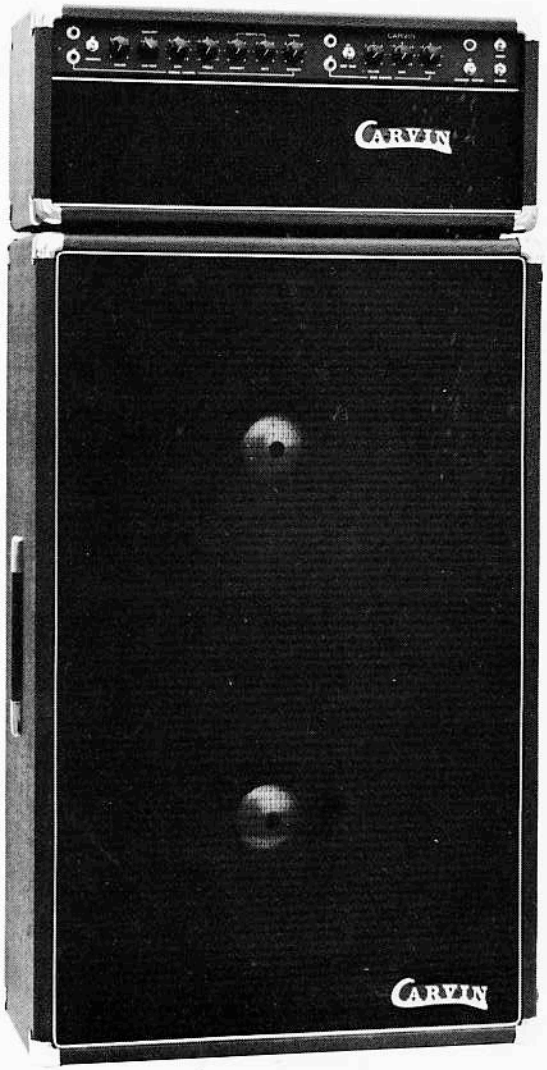
BL1250



FR1200

If the EV30A Midrange–Treble Horn is not desired in the so-equipped models, deduct $34.00 from the Mfg. Direct Price.

Lead Amps



TM565

The BL1250 BAND LEADER Amp (Component No's. ST2400 power unit and AL900 speaker system) is designed for musicians who require deep bass response from Two Heavy-Duty 15" Altec Lansing 418B Instrument speakers housed in a tuned Bass Reflex cabinet along with excellent Midrange-Treble power from One Electro Voice EV30A Midrange-Treble Horn. This amp delivers approx. 25% more acoustic volume per watt than the TM565 amp. The AL900 Wide Range speaker system serves as a dual purpose system which delivers excellent output for both the Bass and Lead Guitar. A 500 cps crossover divides the lower frequencies into the 15" Altec speakers and the higher frequencies into the Midrange-Treble Horn for a natural instrument tone while protecting the horn from bass frequencies. The AL900 also features an OFF-On control for the EV30A Horn.

The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for clean, responsive power. Special Features Include: Normal and Bass Channels, Vari-Tone Equalizer, Harmonic Sustain, Vibrato, Reverb and etc. FOR TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 13 for ST2400 and pages 21 and 23 for AL900. SIZE: Power Unit 24x10x10" Speaker System 24x12x48". WEIGHT: 140 lbs.

BL1250 Mfg. Direct Price $529.95 List $994.95

The BL1100 BAND LEADER Amp is the same as the BL1250 except for Two Heavy-Duty 15" CTS #1502 speakers instead of Altec Lansing speakers. This system develops less volume per watt than the BL1250. (Component No's. St2400 and GR500) WEIGHT: 120 lbs.

BL1100 Mfg. Direct Price $429.95 List $839.95

The FR1200 FULL–RANGE Amp (Component No's. ST2400 power unit and PS800 speaker system) is designed for high powered full-range reproduction for all instruments. The FR1200 delivers approx. the same high acoustic volume as the LM1000 except there is more bass power from an additional 15" speaker. The speaker system (PS800) was originally designed for public address use. However, because of its high power capacity, efficiency, and tone balance, this system also functions as an exceptional guitar amp. The PS800 incorporates a 3 way crossover network which divides all frequencies into 3 different ranges for a true balanced tone. All bass frequencies are handled by one #1502 Heavy-Duty 15" CTS Bass speaker. All Middle frequencies are handled by Four #1020 Heavy-Duty 10" CTS speakers. All treble frequencies are handled by one EV30A Electro Voice Horn. In conjunction with crossover network and individual speaker ranges, the PS800 speaker system is one of the most efficient and balanced sounding systems available today. The PS800 also features a control to turn the EV30A Horn off or on.

The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for clean, reliable power under all continuous playing conditions. Special Features Include: Normal and Bass Channels, Vari-Tone Equalizer, Harmonic Sustain, Vibrato, Reverb, and etc. FOR TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 13 for ST2400 and pages 21 and 23 for PS800. SIZE: Power Unit 24x10x10" Speaker System 24x12x48" WEIGHT: 135 lbs.

FR1200 Mfg. Direct Price $459.95 List $899.95

Note: The 125 Watt RMS VTR2500 Tube Power Unit found on page 11 is also available in the above amp models.

The LM1000 LEAD MASTER Amp (Component No's. ST2400 power unit and SR660 speaker system) is designed for reliable high powered reproduction ranging from the melodious steel guitar to hard rock and blues. The LM1000 delivers approx. 18% more acoustic volume than our TM565 amp because of greater cone area and Midrange Horn. Four Heavy-Duty CTS 12" #1221 Instrument Speakers and one Electro Voice EV30A Horn in a tuned bass reflex cabinet reproduces excellent Treble-Midrange response along with good bass power for all instruments - especially Rhythm and Lead Guitar. The CTS 12" speakers feature: High temp Aluminum Voice Coils, Fatigue-Proofed Cones, 7 lbs Magnet Structures and Vented Aluminum Domes for continous peak power playing without failure. The EV30A Horn delivers excellent treble power with a natural instrument tone (no raspy or harsh tones) starting at 500 cps. The SR660 features a 500 cps crossover which protects the Horn from the bass guitar and directs the treble frequencies into the horn. Bass Guitar and Organ may be used for good results without damage to speakers or horn. The SR660 also features a control to turn the EV30A Horn off or on.

The power unit delivers a full 110 Watts RMS with less then 1% distortion (300 Watts Peak) for clean, responsive power. Special Features Include: Normal and Bass Channels, Vari-Tone Equalizer, Harmonic Sustain, Vibrato, Reverb, and etc. FOR TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 13 for ST2400 and pages 21 and 23 for SR660. SIZE: Power Unit 24x10x10" Speaker System 30x15x48". WEIGHT: 140 lbs.

LM1000 Mfg. Direct Price $459.95 List $899.95

The TM565 TWIN MASTER Amp (Component No.'s ST2400 power unit and TR200 speaker system) is designed for the night club musician who requires an abundance of distortion-free power for Lead, Rhythm and even Bass Guitar without the inconvenience of hauling large bulky amplifiers. The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) into 2 Heavy-Duty #1502 CTS 15" Full Range Instrument Speakers. These speakers deliver excellent bass power from a Tuned Bass Reflex cabinet along with good middle and treble power. The TM565 will reproduce the cleanest sound obtainable or through the use of the Harmonic Sustain and Vari-Tone, will reproduce a punchy rockblues sound which the amp is designed to handle at peak power. Fuzz Tones or Boosters may also be added for special effects without damage to the amp.

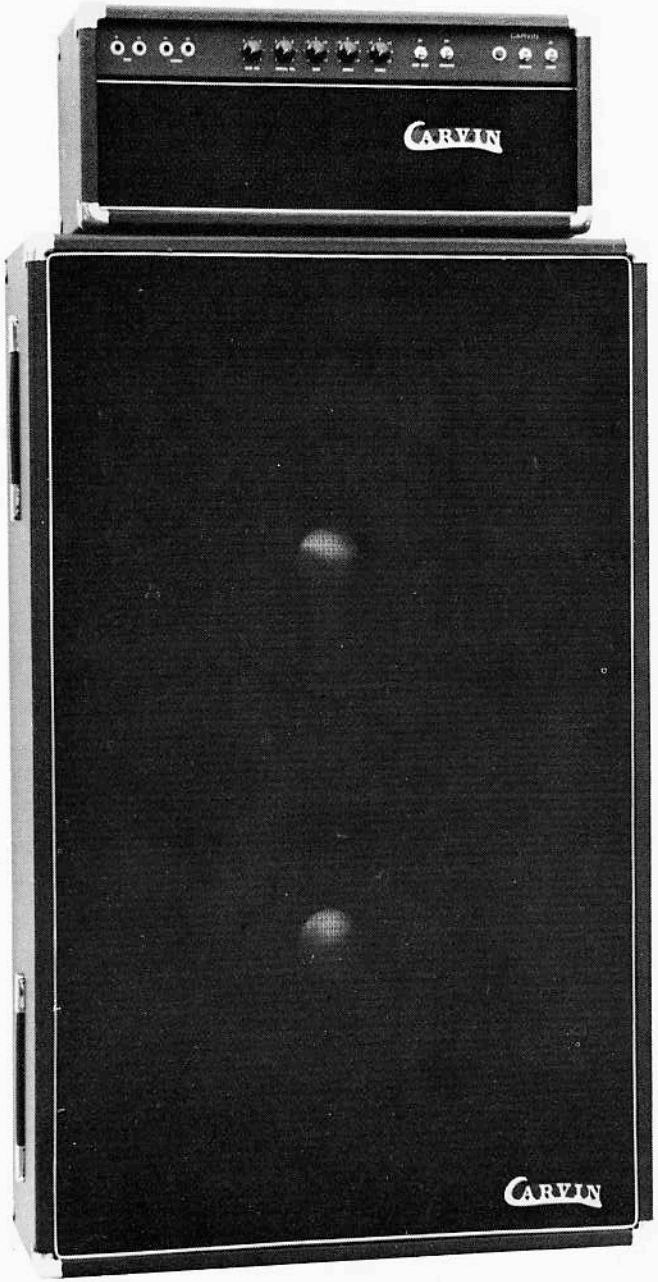
Latest acoustic styling shows off massive front grill with streamlined amp chassis and cabinet design. Rich Black Vinyl grill cloth surrounded with anodized chrome trim makes this one of the sharpest looking amps built today. FOR TECHNICAL INFORMATION: Read articles on pages 12 and 13 for power unit and pages 21 and 23 for speaker system. SIZE: Power Unit 24x10x10 Speaker System 24x12x38. WEIGHT: 105 lbs.

TM565 Mfg. Direct Price $379.95 List $749.95

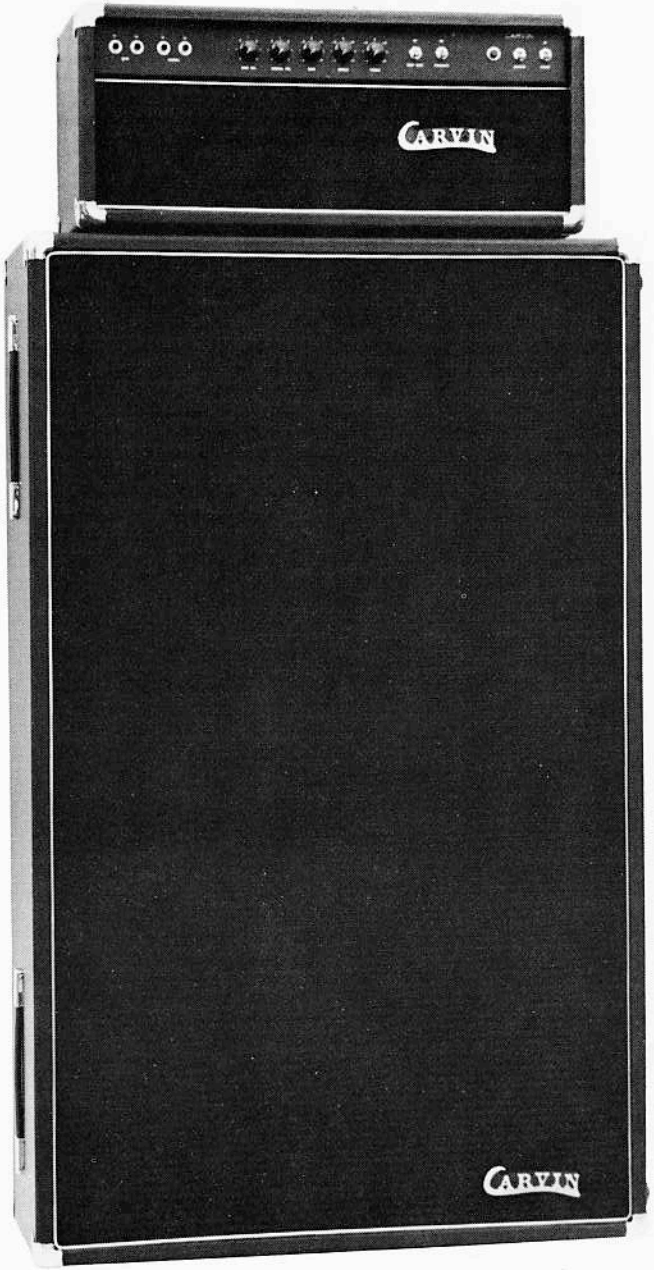
WARRANTY and ACCESSORIES

All Parts and Labor on POWER UNITS are unconditionally guaranteed for TWO YEARS – Speaker Systems ONE YEAR. Each amp is sound-tested and complete with Operating and Self-Service Instructions, Wiring Schematic and Connecting Cord. Amp Accessories are listed on page 30. Try these amps for 10 days and if not 100% satisfied, your full payment is refunded immediately.

High Powered

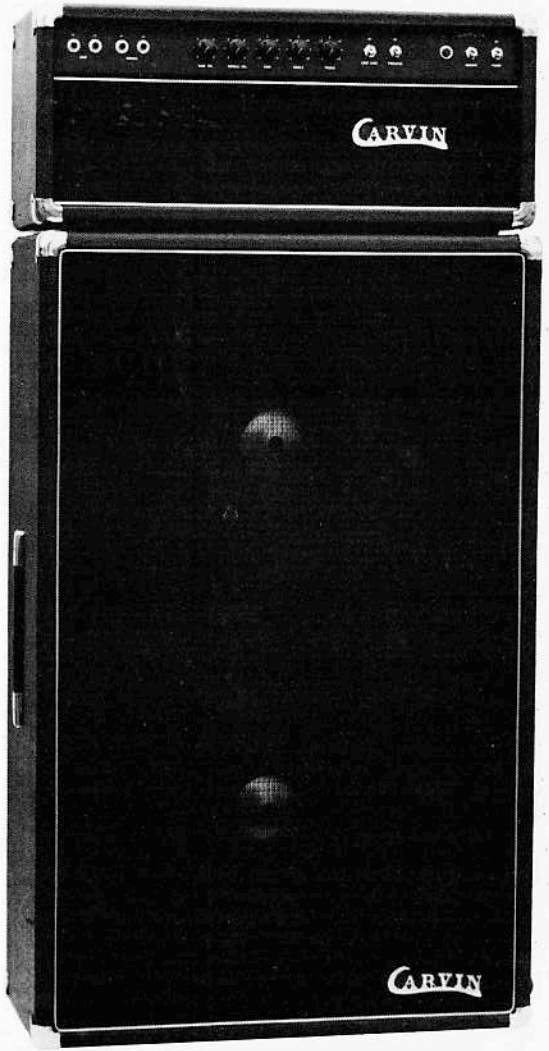


ABM850



BM900

Bass Amps



BM355

WARRANTY

All Parts and Labor on POWER UNITS are unconditionally guaranteed for TWO YEARS – Speaker Systems ONE YEAR. Each amp is sound-tested and complete with Operating and Self-Service Instructions, Wiring Schematic and Connecting Cord. Amp Accessories are listed on page 30. Try these amps for 10 days and if not 100% satisfied, your full payment is refunded immediately.

The BM900 BASS MASTER Amp (Component No's. B2000 power unit and BR850 speaker system) features 2 huge 18" CTS #1860B Bass Instrument speakers in a Tuned Bass Reflex enclosure for tremendous smooth deep, deep bass power. These dual 18" speakers reproduce a deeper bass response with slightly more acoustical output than two 421A Altec Lansing Bass speakers in the same enclosure. However, the 421A Altec's do reproduce a slightly better high frequency response because of their smaller 15" cones. Also, the BR850 speaker system will closely match single 18" Folded Horn speaker systems which are renown for their tremendous deep bass power. the #1860B 18" speakers feature massive 14 lbs. magnet structures along with aluminum-copper voice coils that can each withstand 110 Watts RMS (220 Watts Peak) under continuous playing conditions. Precision aluminum frames maintain a perfect cone alignment for a linear bass response under the most severe bass playing. Tuned Ports in front baffles are featured for reinforcement of all bass frequencies below 150 cps. This allows for a smooth bass response without dead or flat notes. The BR850 cabinet features heavy center and back bracing to eliminate vibrations and rattles.

The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for ultra clean bass reproduction at all frequencies. Special Features Include: Dual Input Channels for Bass or Lead Guitar, Deep Bass Boost Switch, Presence Switch, and etc. For TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 14 for B2000 and pages 21 and 23 for BR850. The BM900 Bass Master is one of our best performance values per dollar considering its outstanding performance. SIZE: Power Unit 24x10x10" Speaker System 30x15x48". WEIGHT: 135 lbs. NOTE: Recommended for Bass Guitar only.

BM900 Mfg. Direct Price $429.95 List $879.95

The ABM850 ALTEC LANSING BASS MASTER Amp (Component No's. B2000 power unit and AL915 speaker system) is designed for excellent deep bass reproduction for all bass instruments. This system reproduces approx. 20% more acoustic volume than our BM355 bass amp. Two famous 15" Altec Lansing 421A Heavy-Duty Bass Speakers are featured in a Tuned Bass Reflex cabinet for smooth, responsive, deep bass power. The AL915 cabinet features heavy center and back bracing to eliminate vibrations and rattles. Tuned Ports in front baffle are featured for reinforcement of all bass frequencies below 150 cps. This allows for a smoother bass response without dead or flat spots as found in other speaker systems. The 421A Altec speakers feature massive 17½ lb. magnet structures along with edge-wound, aluminum - copper voice coils. Each speaker is designed to withstand 110 Watts RMS (220 Watts Peak) for continuous peak power handling without failure.

The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for ultra clean bass reproduction at all bass frequencies. Special Features Include: Dual Input Channels for Bass or Lead Guitar, Deep Bass Boost Switch, Presence Switch, etc. for TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 14 for B2000 and pages 21 and 23 for AL915. SIZE: Power Unit 24x10x19.. Speaker System 30x15x48" WEIGHT: 140 lbs. NOTE: Recommended for Bass Guitar.

ABM850 Mfg. Direct Price $479.97 List $899.95

The BM355 BASS MASTER Amp (Component No's. B2000 power unit and TR200 speaker system) delivers an abundance of deep bass power for night clubs and school auditoriums. The outstanding feature of this amp is its great performance and deep bass punch from a compact speaker enclosure. The TR200 speaker system features 2 Heavy-Duty 15" CTS #1502 Bass Instrument speakers housed in a Tuned Bass cabinet for smooth deep bass power without dead or flat notes. The CTS #1502 15" speakers feature; High Temp. Aluminum Voice Coils, Fatigue-Proofed Cones, 7½ lb. Magnet Structures and Vented Aluminum Domes for continuous peak power playing without failure. The TR200 cabinet also features heavy center and back braces which eliminate vibrations and rattle problems.

The power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for ultra clean bass reproduction at all frequencies. Special Features Include: Dual Input Channels for Bass or Lead Guitar, Deep Bass Boost Switch, Presence Switch, etc. For TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 14 for B2000 and pages 21 and 23 for TR200. SIZE: Power Unit 24x10x10" Speaker System 24x12x38" WEIGHT: 100 lbs.

BM355 Mfg. Direct Price $339.95 List $649.95

Note: The 125 Watt RMS VT2500 Tube Power Unit found on page 11 is also available in the above amp models.

Folded Horn Bass Amp

The FH1400 FOLDED HORN BASS Amp (Components No's B2000 power unit and FH950 speaker system) is the ultimate system for the most discriminating bass player who requires deep bass punch with extra reserve power for the largest rock concert. The Folded Horn speaker system (FH950) features Two Special Designed 15" Heavy-Duty folded horn drivers reverse-mounted into a folded horn chamber. These horn drivers are equivalent to the Vega 153-W series drivers which are renown for their folded horn performance. These drivers are designed to withstand the most severe bass playing at continuous peak power levels while maintaining true bass tones at all volume levels. Each driver consists of a massive 15 lb. magnet structure along with a precision steel frame to maintain perfect cone alignment at all frequencies. The massive edge-wound vented copper voice coils will handle up to 125 watts RMS (250 Watts Peak) each under continuous playing conditions.

The FH950 Folded Horn speaker system will deliver approx. 10% more acoustic power per watt over a Single 18" Folded Horn Speaker System because of its 1/3 bigger cone area and larger horn design. Also, the FH950 develops approx. 25% more acoustic power over conventional speaker systems which feature Two 15" Altec or JBL speakers. The FH950 enclosure is constructed of heavy laminated plywood (not pressed wood or pine) and covered with a heavy 28oz. Black Anti-Scratch Vinyl for lasting durability. All corners are lockjointed and glued. Large rap-around corners and metal feet help protect cabinet. A built-in dolly with casters, is featured on bottom rear angle of cabinet.

The B2000 power unit delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for ultra clean bass reproduction at all bass frequencies. However, because of the high efficiency of the FH950, the B2000 is equivalent to other power units with 170 Watts RMS using conventional speaker systems. Special Features Include: Dual Input Channels for Bass or Lead Guitar, Deep Bass Boost Switch, Presence Switch, etc. For TECHNICAL and DESCRIPTIVE INFORMATION read pages 12 and 14 for power unit and pages 21 and 23 for speaker system. SIZE: Power Unit 24x10x10" Speaker System 32x18x48" WEIGHT: 195 lbs. NOTE: Recommended for bass guitar only.

FH1400 Mfg. Direct Price $499.95 List $1049.95

The SFH2500 Super FOLDED HORN BASS Amp (Components: One B3000 and two FH950) features the B3000 power unit which delivers 200 Watts RMS (600 Watts Peak) with less than 1% distortion into two FH950 speaker systems.

SFH2500 Mfg. Direct Price $899.85 List $1849.95

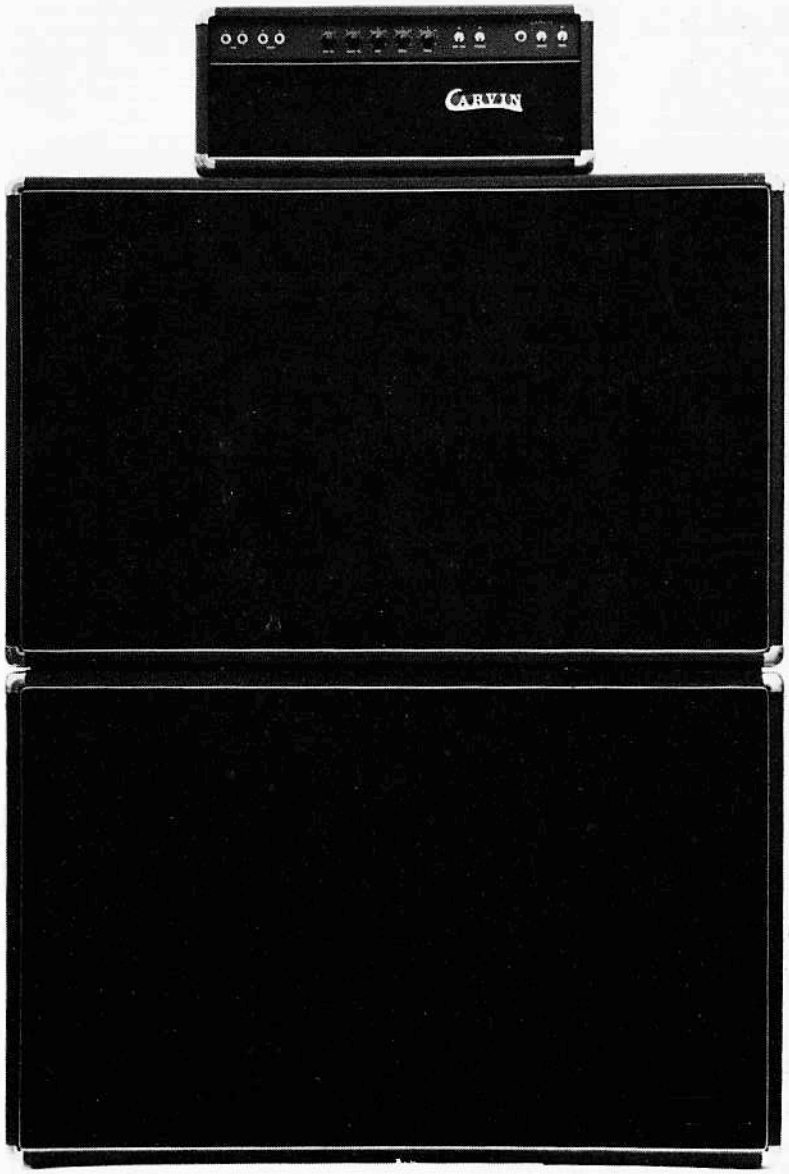
PRINCIPLE OF FOLDED HORN EFFICIENCY

The Folded Horn is an acoustic transformer which greatly improves impedance matching of the speaker to the air. The gradual expanding area of the horn matches the relatively low impedance of the outside air to the high mechanical impedance of the speaker. The open E string on the bass guitar is approx. 40 cps. The wave length of 40 cps is 28.2 ft. All higher bass notes have relatively shorter wave lengths. The Folded Horn gradually expands the sound waves so all waves become fully developed before leaving the mouth of the horn. Thus, the Folded Horn produces a deeper sounding bass and is approx. 25% louder for the same wattage input than a conventional front-mounted Dual 15" Altec or JBL Bass speaker system. Another advantage of the folded horn is that it does not reproduce peak power amp distortion as noticeable as conventional front-mounted bass speaker systems do.

Conventional front-mounted speaker systems must "grab hold" the entire "outside air" merely through the air which the surface of the diaphragm itself comes in contact with. Thus, large bass wave lengths do not have a chance to fully develop before they leave the cabinet, which results in a much lower speaker system efficiency compared to that of the folded horn.

WARRANTY and ACCESSORIES

All Parts and Labor on POWER UNITS are unconditionally guaranteed for TWO YEARS — Speaker Systems ONE YEAR. Each amp is sound-tested and complete with Operating and Self-Service Instructions, Wiring Schematic and Connecting Cord. Amp Accessories are listed on page 30. Try these amps for 10 days and if not 100% satisfied, your full payment is refunded immediately.



NOTE: Other Super Amp Combinations may also be derived by combining other speaker systems found on pages 23 with high powered 200 Watts RMS Lead or Bass Power Units found on pages 13 & 14. Also, 200 Watt RMS Power Units may be combined with just one speaker system for excellent results without speaker failure. All 200 Watt RMS amps deliver their maximum output at 2 ohms which is the equivalent of two 4 ohm speaker systems.

Super Amps

The SBL2000 SUPER BAND LEADER Amp (Component No's. ST4000 and Two AL900 Speaker Systems) produces fantastic distortion free power for all Rhythm, Organ, and Lead Instruments. The ST4000 power unit delivers a full 200 Watts RMS (600 Watts Peak) with less than 1% distortion for tremendous, responsive power for the largest concerts. Each AL900 speaker system consists of Two 15" Altec Lansing 418B Full Range Instrument Speakers and One Electro Voice EV30A Midrange-Treble Horn which can be switched off or on. These speaker-systems are exceptionally high efficient systems which means more volume per watt. For TECHNICAL INFORMATION, read pages 12 and 13 for ST4000 power unit and pages 21 and 23 for AL900 Speaker Systems. SIZE: Power Unit 24x10x10" Speaker Systems (Two) 24x12x48". WEIGHT: 250 lbs.

SBL2000 Mfg. Direct Price $929.95 List $1849.95

The SLM1600 SUPER LEAD MASTER Amp (Component No's. ST4000 and Two SR660 Speaker Systems) produces tremendous distortion-free power for all Rhythm and Lead Instruments. The ST4000 power unit delivers a full 200 Watts RMS (600 Watts Peak) with less than 1% distortion for tremendous, responsive power for the largest concerts. Each SR660 speaker system consists of Four Heavy-Duty 12" CTS #1221 Instrument Speakers and One Electro Voice EV30A Midrange-Treble Horn which can be switched on or off. For TECHNICAL INFORMATION, read pages 12 and 13 for ST4000 power unit and pages 21 and 23 for SR660 speaker systems. SIZE: Power Unit 24x10x10" Speaker Systems (Two) 30x15x48". WEIGHT: 250 lbs.

SLM1600 Mfg. Direct Price $769.85 List $1499.95

The SABM1800 SUPER ALTEC BASS MASTER Amp (Component No's. B3000 and Two AL915 Speaker Systems) delivers excellent Deep Bass Power for All Bass Instruments. The B3000 power unit delivers a full 200 Watts RMS (600 Watts Peak) with less than 1% distortion for super clean bass reproduction at all frequencies. Each AL915 speaker system consists of Two 15" Altec Lansing 421A Bass Instrument speakers in a Bass Reflex enclosure which is tuned to deliver deep bass power over the entire bass range. For TECHNICAL INFORMATION, read pages 12 and 14 for B3000 Power Unit and pages 21 and 23 AL915 Speaker Systems. SIZE: Power Unit 24x10x10" Speaker Systems (Two) 30x15x48" WEIGHT: 280 lbs.

SABM1800 Mfg. Direct Price $859.95 List $1695.90

The SBM1900 SUPER BASS MASTER Amp (Component No's B3000 power unit and Two BR850 Speaker Systems) produces fantastic Deep Bass Power for all Bass Instruments. The B3000 power unit delivers a full 200 Watts RMS (600 Watts Peak) with less than 1% distortion for super clean bass reproduction at all frequencies into both speaker systems. Each BR850 speaker system consists of Two Huge 18" Heavy-Duty Bass Speakers which deliver a deeper bass response with more power than Two 421A Altec Lansing Bass Speakers in the same enclosure. All Four 18" speakers are housed in 2 Bass Reflex cabinets which are tuned for maximum efficiency over the entire bass range. For TECHNICAL INFORMATION, read pages 12 and 14 for B3000 power unit and pages 21 and 23 for BR850 Speaker Systems. SIZE: Power Unit 24x10x10" Speaker Systems (Two) 30x15x48" WEIGHT: 260 lbs.

SBM1900 Mfg. Direct Price $749.95 List $1595.00

SUPER AMP ACCESSORIES

No. CV-70 $42.00 for 3 Heavy Black Vinyl Covers with reinforced nylon backing for power unit and two speaker systems for the following Systems: SABM1800, SBM1900, and SLM1600.

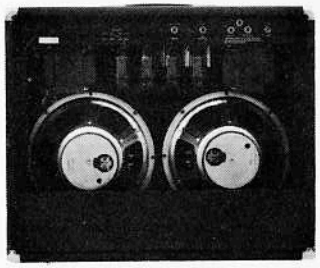
No. CV-72 $40.00 for 3 Heavy Black Vinyl Covers with reinforced nylon backing for SBL2000 amp.

FS-4 Dual purpose double pedal control for remote control of Harmonic Sustain or Reverb and Vibrato for ST4000 power units only. $10.00

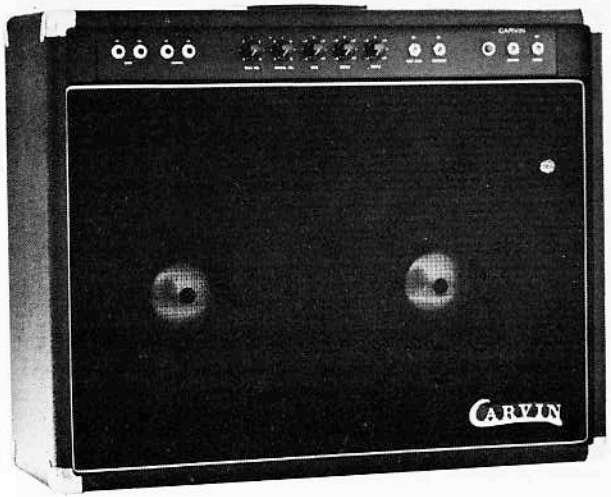
No. CT-10 All Speaker Systems are available with 4 optional Heavy-Duty 2½" Swivel Casters attached to bottom of cabinet. Add $8.00 per cabinet and specify.

High Powered Compact Amps

ML 212



VTR-212 shown with back plate removed



MB 212

The MUSICIAN'S VTR-212 Amp is designed for musicians that demand a High Powered Tube Amp which delivers clean, responsive power with natural sustaining tube distortion (Clean Distortion) when pushed into the peak power range. The outstanding feature of this amp is its tremendous tone and power output from a compact enclosure. The amp chassis (VTR2500 with Hammond Reverb) delivers a full 125 Watts RMS (334 Watts Peak) into 2 Heavy Duty 12" CTS #1221 Instrument speakers which deliver a clean, full-bodied tone for all lead and rhythm instruments. Special Amp Features Include a POWER LEVEL CONTROL which limits the RMS and Peak power of the amp for natural sustaining tube distortion at lower volume levels. This is a tremendous asset when practicing, jamming, or recording. Electrically, the POWER LEVEL CONTROL regulates the D.C. Voltage of the power supply, which in turn limits the amps output as if it were a lower powered amp. NORMAL and BASS Channels are featured with Bass, Middle, and Treble controls for exceptionally wide tone range. The VTR-212 amp will also function as an exceptional bass amp when using an auxiliary bass speaker system. For TECHNICAL INFORMATION on the VTR-212 Amp Chassis (VTR2500), read page 11. SIZE: 26x10x22". WEIGHT: 80 lbs.

VTR-212 Mfg. Direct Price $329.95. List $629.90

The MUSICIAN'S VT-212 Amp has the same specifications as the VTR-212 except no Hammond Reverb System.

VT-212 Mfg. Direct Price $299.95 List $559.95

The MUSICIAN'S ML212 Solid State Amp is designed for professionals who want responsive power with a full range tone without the inconvenience of hauling large amplifiers. Two Heavy-Duty 12" CTS #1221 Instrument Speakers are housed in an open back cabinet powered by the ST2400 power chassis which delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak). Both CTS speakers feature High Temp. Aluminum-Copper Voice Coils, Fatigue-Proofed Cones, 7 lb. Magnet Structures and Vented Aluminum Domes for reliable power night after night without failure. SPECIAL AMP FEATURES INCLUDE: Harmonic Sustain for natural distortion, Vari-Tone for desired tone equalization, Hammond Reverb, Presence Switch for added Midrange-Treble Power and Etc. For more Technical Information on ST2400 amp chassis, read pages 12 and 13.

The amp cabinet features a high luster 28oz. Black Vinyl covering, the heaviest available to amplifier companies. Large Wrap-Around Chrome Metal Corners help protect cabinetry. The cabinet is constructed of ¾" Laminated Plywood – not pressed wood or pine. The Grill is a heavy Black Vinyl Cloth for lasting beauty and durability. For more information on cabinet construction, read page 21. SIZE: 26x10x22". WEIGHT: 65 lbs.

ML212 Mfg. Direct Price $299.95 List $595.00

The MUSICIAN'S MB212 Solid State Amp is also designed for professionals who want high powered reproduction with a full range tone but do not want the extra features such as Reverb, Vari-Tone, Harmonic Sustain, and etc. Two Heavy-Duty 12" CTS #1221 Instrument Speakers are housed in an open back cabinet powered by the B2000 power chassis which delivers a full 110 Watt RMS with less than 1% distortion (300 Watts Peak). Dual Channels are featured along with Wide-Range Bass, Middle, and Treble controls for excellent versatility. The Presence Switch adds considerable Midrange-Treble Power while the Deep Bass Switch adds considerable depth to all lower notes. This is an excellent amp for the musicians who are only interested in clean, responsive power without special effects. For more technical information on the amp chassis, read about the B2000 on page 14. SIZE: 26x10x22". WEIGHT: 60 lbs.

MB212 Mfg. Direct Price $259.95 List $489.90

OPTIONAL ALTEC LANSING SPEAKERS. The above amplifiers may be special ordered with Two Altec Lansing 417C 12" Heavy-Duty Instrument speakers which feature 10½ lb. magnet structures in place of the CTS #1221 12" speakers. The Altec Lansing speakers deliver approx. 15% more volume with slightly more treble response. With optional Altec speakers, specify AML212, AMB212, AVTR-212 or AVT-212 depending on the desired model and add $100.00 to the Mfg. Direct Price.

WARRANTY and ACCESSORIES

All Parts and Labor on Power Chassis are unconditionally guaranteed for TWO YEARS – ONE YEAR on either Altec or CTS speakers. Each amp is sound-tested, complete with Operating, Self-Service Instruction and Wiring Schematic.

No. FS-4 Dual purpose double pedal control for remote control of Reverb and Vibrato or Harmonic Sustain. This pedal is designed for the ML212 amp. $10.00

No. CV-12 Heavy Black Vinyl Cover with reinforced nylon backing for ML212, MB212, VTR-212 or VT-212 amplifier. $12.00

Professional Tube Power Units

The VTR 2500 125 Watt RMS Tube Amp is designed for musicians that demand a dependable High Powered tube amplifier which delivers clean, responsive power with natural tube distortion (Clean Distortion) when pushed into the peak power range. Music reproduction of the VTR2500 ranges from Hard Rock and Blues to melodious Steel Guitar Playing. Two Independent Channels (Normal and Bass) are designed for Lead or Bass Guitar amplification without compromising for either instrument. High Gain, Low Noise 12AX7A Pre Amp Tubes are featured in both channels for exceptionally high gain which is required for sustaining notes when natural tube distortion is desired. Each channel also features High and Low input sensitivity jacks which correct for weak or strong pickups.

Both Normal and Bass Channels feature tone control circuits which are designed for their own particular channel range. Three Tone Circuits (Bass, Middle, and Treble) for each channel, work on the same principle as an acoustic equalizer in which the center 0 position of the control denotes the "Flat" or natural sound of the instrument. These controls will raise or lower tones 17 db at 50 cps, 500 cps, and 6,000 cps for a very wide tone range. The Normal channel also features a Presence Switch which adds considerable amounts of Midrange and Treble Power in addition to the tone controls. The Bass Channel features a Bass Boost Switch which adds bass power and depth to all bass notes below 200 cps.

The Heavy Duty OT543 Bass Output Transformer features a silicon steel core – bifiller wound, which allows bass amplification down to 20 cps with less than 1.5 db power loss without distortion for all bass instruments. Most Lead and some Bass Output Transformers in other tube amplifiers start losing power at 50 cps with a sizeable power loss of 3 to 5 db below 45 cps. The OT543 has an upper limit of 20,000 cps which permits the VTR2500 to be used as a Lead Amp without compromise.

VTR 2500 and VT2500 CONTROL IDENTIFICATION and FEATURES

NORMAL CHANNEL FEATURES: High and Low Sensitivity Input Jacks * Presence Switch for Excellent Mid-Range – Treble Boost * Extended Range Bass, Middle, and Treble Controls with Zero Centering Position for Natural Instrument Tone * Intensive Control for High Quality Hammond Reverb System.

BASS CHANNEL FEATURES: High and Low Sensitivity Input Jacks * Deep Bass Boost Switch for added depth and power for all bass instruments. Extended Bass, Middle, and Treble Controls with Zero Centering Position for Natural Instrument Tone.

OTHER FEATURES: A Power Level Control which limits the RMS and Peak Power of the amp for practices and recording * Standby Switch * ON-OFF Switch * Ground Switch * Pilot Light * Two Speaker Output Jacks with Impedance Selector Switch * Reverb Foot Pedal Jack * Power Slave Output Jack for adding more RMS power at another time * Power Supply circuit is fused for complete amp protection * The cabinet is constructed of ¾" Solid Core Laminated Plywood covered by a Heavy 28oz Anti-Scratch Black Vinyl for exceptional durability. All Controls are Top Mounted for easy accessibility.

All Parts and Labor on Power Units are unconditionally guaranteed for TWO YEARS.

#FS-2 Optional Pedal Control for remote control of Reverb for the VTR2500. $6.00.
#CV-14 Optional Heavy Black Vinyl Cover for VTR2500 and VT2500. $10.00.

COMPONENT FEATURES

- Massive Power and Output Transformers Engineered for continuous use and Lifetime Service.
- Premium RCA and GE Pre Amp and Power Tubes are used exclusively.
- RCA 7027A Output Tubes can withstand up to 50% more power than 6L6GC.
- 1000 Volt Silicon Power Diodes offer large safety factor and eliminate heat from the power supply.
- Malory 100 Mfd. Filter Capacitors are used for hum-free operation and long life.
- All Resistors are 5% Precision Film Type (not carbon type) to prevent voltage breakdown.
- All Capacitors are 10% Mylar Type – not the usual paper-foil type which may leak under high heat.

EXCLUSIVE FEATURE

An OUTPUT LEVEL CONTROL allows the musician to regulate the RMS and Peak Power of his amp so that natural sustaining tube distortion may be obtained at lower volume levels if desired. This is a tremendous asset to lead guitar players when practicing, jamming, or recording when loud volumes are not desired. In fact, most of the best Rock recordings are done with low wattage tube amps.

Electrically, the OUTPUT LEVEL CONTROL regulates the D.C. Voltage of the power supply which in turn limits the amps output as if it were a smaller amp. The OUTPUT LEVEL CONTROL can be set for the following Output: 1/3 setting delivers 40 Watts RMS (90 Watts Peak), 2/3 setting delivers 75 Watts RMS (190 Watts Peak), and the FULL setting delivers the amps full potential of 125 Watts RMS (334 Watts Peak).

VTR2500 SPECIFICATIONS: High Wattage Output designed for either Bass or Lead Guitar amplification without compromise. POWER OUTPUT: 125 Watts RMS with less than .6% distortion at full RMS output. PEAK POWER: 334 Watts. OUTPUT LEVEL CONTROL limits Output to: 1/3 Setting delivers 40 Watts RMS (90 Watts Peak), 2/3 Setting delivers 75 Watts RMS (190 Watts Peak), and the FULL Setting delivers the amps full potential of 125 Watts RMS (334 Watts Peak). OUTPUT IMEDPANCE: 2, 4, and 8 ohms with impedance selector on rear panel. FREQUENCY RESPONSE: 20 to 20,000 cps ±3 db at full power. HAMMOND REVERB: 30-40 milliseconds decay with a total of 1.4 sec. tone delay. TUBES: 4–7027A, 2–12AX7A, 2–12AT7, 1–6CG7 plus 5 Silicon Power Diodes. For 120 VAC 50-60 cps. SIZE: 24x10x10". WEIGHT: 55 lbs.

VTR2500 **Mfg. Direct Price $259.95** **List $549.95**

The VT2500 Power Unit has the same specifications as the VTR2500 except no HAMMOND REVERB SYSTEM. WEIGHT: 50 lbs.

VT2500 **Mfg. Direct Price $229.95** **List $499.95**

Lead Amplifier System utilizing the VTR2500 Tube Power Unit with Reverb.

Model No.	Power Unit & & Spk. System	Mfg. Direct Price	List
VTR-BL1250	VTR2500 & AL900	$559.95	$995.95
VTR-FR1200	VTR2500 & PS800	479.95	929.95
VTR-BL1100	VTR2500 & GR500	459.95	869.95
VTR-LM1000	VTR2500 & SR660	479.95	929.95
VTR-LP600	VTR2500 & D400	419.95	799.95
VTR-TM565	VTR2500 & TM200	399.95	749.94

If the Hammond Reverb System is not desired in the above systems, deduct $29.95 from the Mfg. Direct Price and Specify.

Bass Amplifier Systems utilizing the VT2500 Tube Power Unit – No Reverb.

VT-FH1400	VT2500 & FH950	$549.90	$1179.95
VT-ABM850	VT2500 & AL915	519.90	191.95
VT-BM900	VT2500 & BR850	469.90	889.95
VT-BM355	VT2500 & TR200	369.95	699.95

If the Hammond Reverb System is desired in the above systems, add $29.95 to the Mfg. Direct Price and Specify.

Also, the VTR2500 or VT2500 is designed to drive any two of the above speaker systems for exceptional Super Amp Performance. Add Mfg. Direct Prices of Components for total price. All connecting cords included.

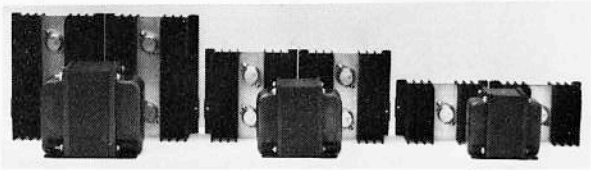
Professional Power Unit Features

In 1951 CARVIN started producing tube amplifiers for guitar and bass instruments. In 1964, we started manufacturing one of the first solid-state amplifiers which met with excellent success in both reliability and tonal qualities. Today, we are still manufacturing one of the finest solid-state amps available. However, some major amp companies which have marketed solid-state amps along with their tube amps, are dropping their solid-state line because of high failure rates and a sound that most musicians did not want. This was the result of poor engineering and inferrior components. As an example, these companies used power transistors with a 10 to 15 amp capacity, while we use power transistors with a 25 amp capacity and broader frequency range.

Through constant engineering with engineers from North American Corp., Honeywell Corp., and our own engineering staff, the Carvin Co. has been able to manufacture solid-state amps that duplicate tube amps for the same clear sustaining sound and high reliability with no compromise. Tube amps have no advantage over solid-state amps providing that solid-state amps are properly and fully designed using the best components.

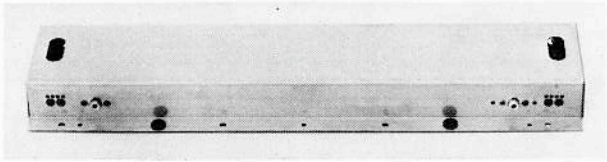
COMPONENT FEATURES IN ALL POWER UNITS AND P.A. POWER MIXERS

* Fail-Proof Electronic Short Circuit Device protects all amps from failure if speaker systems are removed or shorted while amp is on or being played through.
* All Semi-Conductors are the highest quality from G.E. RCA, and Motorola.
* All resistors are precision 5% Film Type - not the usual 10% Carbon Type
* Special Heavy-Duty Power Transformers are designed for continuous operation.
* All Capacitors are 10% Malar type - Not the usual 20% Paper-Foil Type.
* A Military-type turret board which is Hand-Wired eliminates the possibility of cracked printed circuit boards.
* All Hardware, Jacks, and Controls used are the best available for lasting mechanical functions.
* All Components including power transistors are designed for continuous peak power output for up to 12 hours without shut-down or failure.
* All Amplifiers are made in the USA by the Carvin Mfg. Co.

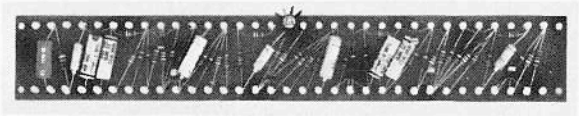


The above picture displays the various power heat sinks and transformers used in Carvin amplifiers.

Latest semi-conductor technology assures the natural reproduction of all instruments with constant reliability under peak power playing conditions. Heavy Duty heat sinks are used in conjunction with 25 amp power transistors for maximum thermal and current surge stability. Continuous-duty power transformers along with large capacity filters, permit continuous peak power playing with inaudible hum. Hand wired chassis with special pre-testing techniques and a final instrument power check, assure the customer that his amplifier will perform to its full potential without failure.



Reverberation is standard in every power unit except for bass amps. The Carvin reverb employs special circuitry which eliminates lower bass frequencies so as to produce an expanded sound effect — especially for lead guitar. High quality transistors are used for a distortion-free echo at any output setting of the amp. A genuine full size, dual spring Hammond tank is used. This tank produces a studio type effect witha 30-40 milli-second delay with a total of 1.4 sec. tone delay. The amount of delay is controlled by the control marked REVERB and can be mixed into channel No. 1 from a conventional sound to a full echo. The reverb can be turned off by a remote foot pedal from the rear of the amp.

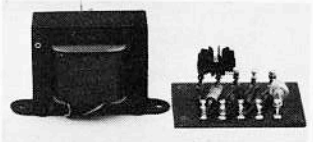


The above picture displays the type of wiring used in all Carvin amplifiers. A precision military Turret Board assures the components against fatigue and possible failure from vibrations or droppage of amplifier. Also, this type of wiring is superior to printed circuit boards because of its solid construction and reworking abilities. All amp chassis are hand wired to meet high electronic standards.

Precision resistors and capacitors are used throughout the amp chassis for high stability and low noise output. Field Effect Transistors (FET) are incorporated in the pre amp stages for a high input impedance for all types of instruments and mics. FET are noted for their high input volume with clearer tone reproduction.

GUARANTEE

All Tube and Solid State Power Units, Power Slaves, Monitors, and P.A. Power Mixers are unconditionally guaranteed for TWO YEARS against any malfunction or failure. If an unlikely malfunction or failure should occur, the power unit may be returned to us for immediate factory servicing (allow up to 5 days at our factory plus shipping time). The Carvin Co. will service the unit and replace all required parts at no charge to the customer. Or by using the Self-Servicing Instructions, the Carvin Co. will supply all requested replacement parts at no charge to the customer. Once amplifier is out of warranty, we offer complete factory servicing at a very low minimum rate along with standard replacement parts.



The above picture displays the Electronic Circuit Breaker which is standard in every Carvin power unit. This device protects the amp electronically against shorted speaker output conditions or the removal of the speaker system while the amp is on or being played through. Mechanical circuit breakers are not incorporated as these devices are too slow to react for the complete protection of the amp.

May we mention that several name brand solid state amps on the market today are insufficiently protected against these adverse conditions. Thus, if their speaker system is removed or shorted while the amp is on or being played through the power transistors in most will fail. We guarantee that our amps are protected against such problems.

Servicing Breakthrough: All Carvin power units are engineered so that the customer can service his own amp if he desires. Here's why. A special silicon core driver transformer, as shown with the electronic circuit breaker, is used to isolate the power transistors from the complete amp. If a power transistor is damaged because of a freak transistor condition or the amp is plugged into 220 volts, all the customer has to do is remove the transistor from its heat sink and replace it with a new transistor for new amp performance. The damaged transistor will not affect any portion of theamp including the isolation transformer. Self-Servicing instructions are included with each amp. Replacement power Transistors are available Nation wide through the Motorola Replacement Series.

Carvin amps produce a sound which resembles a high quality HIFI system producing deep rich bass notes along with shrilling high notes for lead guitar. Special tone boosters are incorporated in the tone control stages which enables the musician to add considerable amounts of bass or treble or subtract unwanted tones. The tone controls are marked with a zero setting denoting the natural sound of the instrument. Positive numbers to the right of the zero denote the addition of tone. Negative numbers to the left of the zero denotes the subtraction of tone from the instrument. This is an exclusive feature found in Carvin amps.

Professional Solid State Lead Power Units

SPECIAL FEATURES

The new exclusive feature called Vari-Tone (Tone Equalizer) allows the musician to select his choice of 4 entirely different amp sounds. The Vari-Tone does not simply change the tone curves on the bass and treble controls as other competitive companies do, but incorporates special electronic by-pass and notch filters in the pre amp and regenerative tone feedback in the power stage for selective equalization.

The HARMONIC SUSTAIN, when turned on, produces a natural expanding blues power very similar to that of high quality Fuzz Devices. The Harmonic Sustain may be used in conjunction with any setting of the Vari-Tone and can be remotely controlled by an optional FS-4 foot control.

CARVIN Lead Power Units are designed for high powered music reproduction ranging from melodious steel guitar playing to hard rock and blues with all the desired lead guitar features incorporated into one unit. Also, the BASS CHANNEL allows these Lead amps to double as a bass amp. All Lead amps now incorporate the same Heavy-Duty Power Supply and Output Stages as our bass amps for continuous peak power playing along with a Bass Boost Circuit which delivers exceptional, deep bass output.

The Solid, Streamlined Enclosure is constructed of ¾" Solid Core Laminated Plywood covered by a Heavy 28 oz. Anti-Scratch Black Vinyl for exceptional durability. All Controls are Top Mounted for easy accessibility.

ST2400 and ST4000 CONTROL IDENTIFICATION and FEATURES

NORMAL CHANNEL FEATURES: High and Low Sensitivity Input Jacks * Vari-Tone Selector for Tone Equalization * Harmonic Sustain Switch for Natural Tube Distortion * Presence Switch for Tremendous Mid-Range Treble Boost * Wide Range Bass and Treble Controls with Zero Centering Position for Natural Instrument Tone * Vibrato with Variable Rate and Intensitive Controls * High Quality Hammond Reverb System with Intensitive Control.*

BASS CHANNEL FEATURES: High and Low Sensitivity Input Jacks * Deep Bass Boost Switch for added depth for all bass instruments including rhythm guitar * Wide Range Bass and Treble Controls with Zero Centering Position for Natural Instrument Tone.

OTHER FEATURES: Off-on Switch * Ground Switch * Pilot Light * Two Speaker Output Jacks * Harmonic Sustain, Reverb, and Vibrato Foot Pedal Control Jacks * Power Slave Output Jack. AMP PROTECTION: Primary Fuse and Electronic Circuit Breaker Protects Amp Against Shorted Speaker Wires or the Removal of the Speaker System(s).

GUARANTEE: TWO YEARS on all Parts and Labor.

ST4000 SPECIFICATIONS: Sound Coverage intended for blasting performance in large discotheques, auditoriums, and outside stages. The St4000 amp is a modular power unit designed to develop more non-distorted RMS and Peak Power with an additional 4 ohm speaker system. Conventional amps develop their maximum power at 4 ohms. The ST4000 develops its maximum power at 2 ohms which is the equivalent of using two 4 ohm speaker systems or four 8 ohm speaker systems. POWER OUTPUT AT 2 OHMS: 200 Watts RMS with less than 1% distortion. PEAK POWER: 600 Watts. POWER OUTPUT AT 4 OHMS: 150 Watts RMS with less than 1% distortion. PEAK POWER: 400 Watts. SPEAKER OUTPUT IMPEDANCE: 2 thru 16 ohms. VARI—TONE: Position No. 1 is normal; Positions 2, 3, and 4 incorporate notch and by-pass filters with regenerative tone feedback in power stage. HARMONIC SUSTAIN: Expanding square wave with sustaining 3rd and 5th harmonics. BASS and TREBLE BOOST and CUT: ± 15db. PRESENCE SWITCH: + 25db at 2.5.K. FREQUENCY RESPONSE: 20 to 20,000 cps ± 3db at full power. SENSITIVITY: 20 mv at 1K for full output. HAMMOND REVERB: 30-40 milliseconds decay with a total 1.4 sec. tone delay. VIBRATO: Intensity up to 80% modulation with a variable rate of 5 to 18 Hz. POWER REQUIREMENTS: 120 VAC 50-60 Cps. WEIGHT: 40 lbs. SIZE: 24x10x10".

ST4000 Mfg. Direct Price $299.95 List $649.95

ST2400 SPECIFICATIONS: Sound Coverage intended for large discotheques, night clubs and high school gyms. POWER OUTPUT AT 4 OHMS: 110 Watts RMS with less than 1% distortion. PEAK POWER: 300 Watts. SPEAKER OUTPUT IMPEDANCE: 4 thru 16 ohms. A Special Extension Speaker jack permits the amp to drive Two 4 ohm speaker systems. VARI-TONE: Position No. 1 is normal; Positions 2, 3, and 4 incorporate notch and by-pass filters with regenerative tone feedback in power stage. HARMONIC SUSTAIN: Expanding square wave with sustaining 3rd and 5th harmonics. BASS and TREBLE BOOST and CUT: ± 15db. PRESENCE SWITCH: +25 db at 2.5 K FREQUENCY RESPONSE: 20 to 20,000 cps ± 3db at full power. SENSITIVITY: 20 mv for full output. HAMMOND REVERB: 30-40 milliseconds decay with a total 1.4 sec tone delay. VIBRATO: Intensity up to 80% modulation with a variable rate of 5 to 18 Hz. POWER REQUIREMENTS: 120 VAC 50-60 cps. WEIGHT: 33 lbs. SIZE: 24x10x10".

ST2400 Mfg. Direct Price $229.95 List $519.95

No. FS-4 - Optional Dual purpose double pedal control for remote control of both Reverb and Vibrato or Harmonic Sustain. For ST2400 and ST4000. $10.00

No. CV-14 - Optional Heavy Black Vinyl Cover with reinforced nylon backing for ST2400 and ST4000. $10.00

Professional Solid State Bass Power Units

CARVIN Bass Power Units are designed for musicians that require wide bass tone versatility ranging from a deep sub-tone bass to a shallow tone bass with extra reserve non-distorted power. Special Features included a Normal Channel for universal amplification of all instruments including the Lead Guitar. These Dual Channel power units do not feature reverb and other special sound effects as found in Lead Power Units but are designed for musicians that demand only clean, responsive power with an extended tone range.

The Bass Channel incorporates Two Input Jacks for high and low instrument sensitivity along with a Deep Bass Boost Circuit which adds considerable depth to all bass instruments. The Normal Channel features Two Input Jacks for high and low instrument sensitivity along with a Presence Switch, which when turned on, adds considerable Midrange-Treble power for all lead instruments.

The Solid, Streamlined Enclosure is constructed of ¾" Solid Core Laminated Plywood covered by a Heavy 28 oz. Anti-Scratch Black Vinyl for exceptional durability. All Controls are Top Mounted for easy accessibility.

B2000 and B3000 CONTROL IDENTIFICATION and FEATURES

Special Power Unit Features Include: Bass and Normal Channels with High and Low Sensitivity Input Jacks for Each Channel * High Gain Low Noise Pre Amplifiers * Wide Range Bass, Middle, and Treble Controls with Zero Centering Position for Natural Instrument Tone * Deep Bass Boost Switch for added depth for all bass instruments including Rhythm Guitar * Presence Switch for tremendous Midrange-Treble Boost *

OTHER CONTROLS: Off-On Switch * Ground Switch * Pilot Light * Two Speaker Output Jacks for an Extension Speaker System * Power Salve Output Jack for add-on power.

AMP PROTECTION: Primary Fuse and Electronic Circuit Breaker Protects Amp against Shorted Speaker Wires or the Removal of the Speaker System(s).

GUARANTEE: TWO YEARS on all Parts and Labor.

B3000 SPECIFICATIONS: Sound Coverage intended for blasting performance in large discotheques, auditoriums, and outside stages. The B3000 amp is a modular power unit designed to develop more non-distorted RMS and Peak Power with an additional 4 ohm speaker system. Conventional amps develop their maximum power at 4 ohms. The B3000 develops its maximum power at 2 ohms which is the equivalent of using two 4 ohm speaker systems or four 8 ohm speaker systems. POWER OUTPUT AT 2 OHMS: 200 Watts RMS with less than 1% distortion. PEAK POWER: 600 Watts. POWER OUTPUT AT 4 OHMS: 150 Watts RMS with less than 1% distortion. PEAK POWER: 400 Watts. SPEAKER OUTPUT IMPEDANCE: 2 thru 16 ohms. FREQUENCY RESPONSE: 20 to 20,000 cps ± 3db at full output. BASS and TREBLE BOOST and CUT: ± 15db. MIDDLE BOOST: 10db. DEEP BASS BOOST SWITCH: +18db at 50 cps. PRESENCE SWITCH: +20db at 2 K. SENSITIVITY FOR NORMAL and BASS CHANNELS: 20 mv for full output. POWER REQUIREMENTS: 120 VAC 50-60 cps. SIZE: 24x10x10" WEIGHT: 35 lbs.

B3000 Mfg. Direct Price $259.95 List $579.95

B2000 SPECIFICATIONS: Sound Coverage intended for large discotheques, night clubs, and high school gyms. POWER OUTPUT AT 4 OHMS 110 Watts RMS with less than 1% distortion. PEAK POWER: 300 Watts. SPEAKER OUTPUT IMPEDANCE: 4 thru 16 ohms with a special extension speaker jack which permits the amp to drive an additional 4 ohm speaker system. FREQUENCY RESPONSE: 20 to 20,000 cps ± 3db at full output. BASS and TREBLE BOOST and CUT: ± 15db. MIDDLE CONTROL BOOST: 10 db. DEEP BASS BOOST SWITCH: +18db at 50 cps. PRESENCE SWITCH: +20 db at 2K. SENSITIVITY FOR NORMAL And BASS CHANNELS: 20 mv for full output. POWER REQUIREMENTS: 120 VAC 50-60 cps SIZE: 24x10x10" WEIGHT: 28 lbs.

B2000 Mfg. Direct Price $189.95 List $419.95

B1500 SPECIFICATIONS: Same as B2000 except for 80 Watts RMS (215 Watts Peak) at 4 Ohms with less than 1% distortion. FREQUENCY RESPONSE: 30 to 18,000 cps. WEIGHT: 24 lbs.

B1500 Mfg. Direct Price $169.95 List $329.95

No. CV-14 - Optional Heavy Black Vinyl Cover with reinforced nylon backing for B1500, B2000, and B3000 Power Units.

Public Address Sound Systems

WARRANTY

All Parts and Labor on POWER UNITS are unconditionally guaranteed for TWO YEARS – Speaker Systems ONE YEAR. Each amp is sound-tested and complete with Operating and Self-Service Instructions, Wiring Schematic and Connecting Cord. Amp Accessories are listed on page 30. Try these amps for 10 days and if not 100% satisfied, your full payment is refunded immediately.

Stage I

The Stage I Sound System is a Full-Range High Powered P.A. System that delivers ample crisp, clean vocal and instrument power for professional groups that do not wish to carry large, bulky systems. The Stage I Sound System is highly recommended for all microphone and instrument requirements in Night Clubs, School Auditoriums, and Churches. Even the bass guitar may be used with good results at lower volume levels. An optional Power Booster System may be added for increased sound coverage.

The High Quality P2500 Power Mixer delivers a full 110 Watts RMS with less than 1% distortion (300 Watts Peak) for good distortion-free power in all 4 Channels. Each channel features 2 inputs (High and Low Impedance). Both inputs may be used at the same time for a total of 8 inputs. Separate Wide-Range Bass and Treble controls for each channel permit crisp, clean treble and bass response. A high quality Hammond Reverb System is featured in all 4 channels and is controlled by an Off-On reverb switch for each channel. A Master Reverb control adjusts for the exact amount of reverb desired. Special built-in Anti-Feedback filters for each channel eliminate most feedback problems. A Master Volume Control offers complete control over the volume output including reverb, monitors and power slave outputs. A Monitor Output is featured which can be plugged into any conventional amplifier for playback on stage along with a Power Slave Output for additional power boosters.

A primary Fuse and Electronic Circuit Breaker protects the amp against shorted speaker wires or the removal of the speaker system. Extra Heavy-Duty heat sinks are used in conjunction with high amperage 25 amp power transistors to prevent amp shut-down or failure no matter how much peak power is used. A hefty power transformer, along with a well filtered power supply permits continuous peak power playing with inaudible hum at any input setting. For other features and electrical specifications, read pages 12 and 18.

The Stage I Sound System features Two PS300 high efficient Bass Reflex speaker systems which deliver excellent tone balance for natural voice and instrument reproduction. Each system incorporates Two Heavy-Duty 12" CTS #1221 Bass speakers and One Electro Voice #EV30A Projection Horn. A Two-Way 500 cps Electronic Crossover Network divides all frequencies into thier respective speakers for a more efficient and balanced output. The frequency response of the PS300 speaker system extends well beyond all vocal and instrument ranges and surpasses the sound qualities of most 4-10" or 4-12" speaker columns. For more information on speaker specifications, read pages 21 and 23. SIZE: Power Mixer 29x10x10", Speaker Systems 24x12x38" WEIGHT: 180 lbs. THE STAGE I SOUND SYSTEM Includes ONE P2500 Power Mixer, TWO PS300 Speaker Systems with Crossover Networks, and Connecting Cords.

STAGE I Mfg. Direct Price $529.95 List $895.00

THE PB1000 POWER BOOSTER SYSTEM for add-on RMS power and speaker coverage to the Stage I Sound System, consists of One S-260 110 Watt RMS (300 Watts Peak) Power Slave Amp, Two PS300 Speaker Systems with Crossover Networks and all connecting cords to the Stage I System. WEIGHT: 165 lbs.

PB1000 Mfg. Direct Price $449.95 List $799.95

Stage II

The Stage II Sound System is a high quality, high powered 4 Channel P.A. system that delivers tremendous crisp, clean vocal and instrument power. The Stage II is designed for groups that only require 4 channels but demand natural voice and instrument reproduction without distortion. The sound coverage of this system is intended for large discotheques, auditoriums, and outside stages. Also, an unlimited amount of optional Power Booster Systems may be added for increased sound coverage.

The High Quality P4500 Power Mixer delivers a full 200 Watts RMS with less than 1% distortion (600 Watts Peak) to assure distortion-free performance for all 4 Channels regardless of instruments used. Each Channel features 2 inputs (High and Low Impedance). Both inputs may also be used at the same time for a total of 8 inputs. Separate Wide-Range Bass and Treble controls for each channel permit crisp clean highs and deep mellow bass. A high quality Hammond Reverb System is featured in all 4 Channels and is controlled by an Off-On reverb switch on each channel. A Master Reverb control adjusts for the exact amount of reverb desired. Special built-in Anti-Feedback filters for each channel eliminate most feedback problems. A Master Volume Control offers complete control over the entire volume output including reverb, monitors and power slave outputs. A Monitor Output is featured which can be plugged into any conventional amplifier for playback on stage along with a Power Slave output for additional power boosters. For other features and electrical specifications, read page 12 and 13.

The Stage II Sound System features special Extended Range speaker systems which extend well beyond all vocal and instrument frequencies including bass guitar. Two PS800 speaker systems incorporate 3 Way Electronic Crossover Networks which divide all frequencies into their respective speakers. All bass frequencies from 30cps to 300 cps are handled by two Heavy-Duty 15" CTS #1502 Bass Speakers which give excellent bass response from tuned enclosures. Electronic Crossovers then direct all lower middle frequencies from 250 cps to 750 cps into Eight Heavy-Duty 10" CTS #1021 Mid-range speakers for excellent Mid-Range efficiency and tone. All upper middle and treble frequencies from 650 cps to 15,000 cps are passed through an Electronic Crossover Network into Two Electro Voice #EV30 Horn Drivers to assure good clarity and projection of all high frequencies.

Through much testing we have found that these speaker combinations, which incorporate speakers for each frequency range, develop a far better tone balance with more acoustical sound per watt over many other high priced P.A. speaker systems tested. Also, the PS800 speaker system has been compared to Altec's Voice of the Theater systems with comparable results in both tonal balance and output. For more information on speaker specifications, read pages 21 and 23. SIZE: Power Mixer 29x10x10", Speaker Systems 24x12x48".

The STAGE II SOUND SYSTEM includes ONE P4500 Power Mixer, TWO PS800 Speaker Systems with crossover Networks and Connecting Cords. WEIGHT: 245 lbs.

STAGE II Mfg. Direct Price $759.95 List $1449.95

THE PB1500 POWER BOOSTER SYSTEM for add-on RMS power and speaker coverage to the Stage II Sound System, consists of One S-500 200 Watt RMS (600 Watts Peak) Power Slave Amp, Two PS800 speaker systems with crossover networks and all connecting cords to the Stage II System.

PB1500 Mfg. Direct Price $679.95 List $1095.00

Optional Power Monitors found on Page 20.

STAGE II AND STAGE III WARRANTY

All Parts and Labor on Power Mixers are unconditionally guaranteed for TWO YEARS. All speaker systems are guaranteed for ONE YEAR. Each Sound System is fully tested and is complete with Operating and Self-Servicing Instructions, And Wiring Schematic. Amp accessories such as Covers and Dolly Wheels are found on page 30. Try these Sound Systems for 10 days for your 100% approval. If dissatisfied in any way, your full payment is immediately refunded. **OPTIONAL TAPE ECHO MACHINE** The Sireko ES-1 Echo Tape Machine is designed to be used with the Stage II-5000 or Stage III Sound System for special broadcast recording which produces a Les Paul multiple-repeating and special sound sustaining effects. Complete with connecting cords and Operating Instructions. For Technical Information, read page 31.

Stage III

The STAGE III 8 Channel Sound System is featured for large professional groups requiring the ultimate from a public address system. The Stage III P.A. delivers exceptional crisp, clean vocal and instrument power with a full natural tone from two extended-range speaker systems. A full 270 Watts RMS with less than 1% distortion (700 Watts Peak) assures distortion-free power for all 8 channels for the largest auditoriums and outside stages regardless of instruments used. Also, an unlimited amount of optional Power Booster Systems may be added for fantasic sound coverage.

The P5000 Broadcast quality 8 Channel Power Mixer features 2 inputs (High and Low Impedance) for each channel for a total of 16 inputs. Separate Wide-Range Bass and Treble controls for each channel permit crisp clean highs and deep bass. Each Channel features a Reverb-Echo Control which is controlled over-all by a Master Reverb Control and a Master Tape-Echo Control. This allows Reverb and optional Tape-Echo to be used at the same time for exceptional broadcast quality sound effects. The high quality Hammond Reverb System is standard in the P5000. Three Master Equalizers and Anti-Feedback filter networks work in conjunction to eliminate all acoustic deficiencies and feedback problems in large halls and auditoriums. Master Bass and Treble Controls permit precise over-all tone settings of entire mixer. A Master Monitor Control is featured for volume control over all stage monitors. A Master Volume Control maintains complete volume control over entire Mixer. Other features, plus electrical specifications are listed on page 19. Also, V.U. Meter.

Another outstanding performance feature of the Stage III Sound System is its Wide-Range speaker systems which extend well beyond all vocal and instrument frequencies including bass guitar. The Stage III speaker system is similar in design to that of the stage II system except for approx. 15% more acoustic volume which is obtained from larger bass speakers and horns. Two PS860 bottoms and Two EV868 Projector Horns Incorporate 3 Way Electronic Crossover Networks which divide all frequencies into their respective speakers. All bass frequencies from 250 cps and lower, are handled by two Massive 18" CTS #1860 Bass Speakers which will deliver a deeper bass response than two 421A Altec Lansing speakers. Electronic Crossovers then direct all lower middle frequencies from 200 cps to 650 cps into Eight Heavy-Duty 10" CTS #1021 Mid-range Speakers for excellent Mid-range efficiency and tone. The above speaker combinations and crossover networks are incorporated in the PS860 speaker bottoms.

The EV868 Electro Voice Projector Horns handle all upper middle and treble frequencies from 500 cps to 18,000 cps. These Compound Diffraction Horns incorporate dual driver networks which produce an extra ordinary, smooth, peak-free response whereas other large horns have a tendency to produce resonate peaks at certain frequencies. The EV868 Compound Horn is actually two horns in one which assures the greatest possible intelligibility for all vocal and instrument reproduction with the lowest possible overall distortion. The large portion of the horn carries all frequencies from 500 cps to 2,000 cps while the small front horn carries all upper treble frequencies to 18,000 cps. The Electro Voice Compound Diffraction horns are housed in separate enclosures which sit on top of the PS860 speaker bottoms. The horns Electronic Crossover is also in the same enclosure. These crossovers are fully adjustable for the desired horn level.

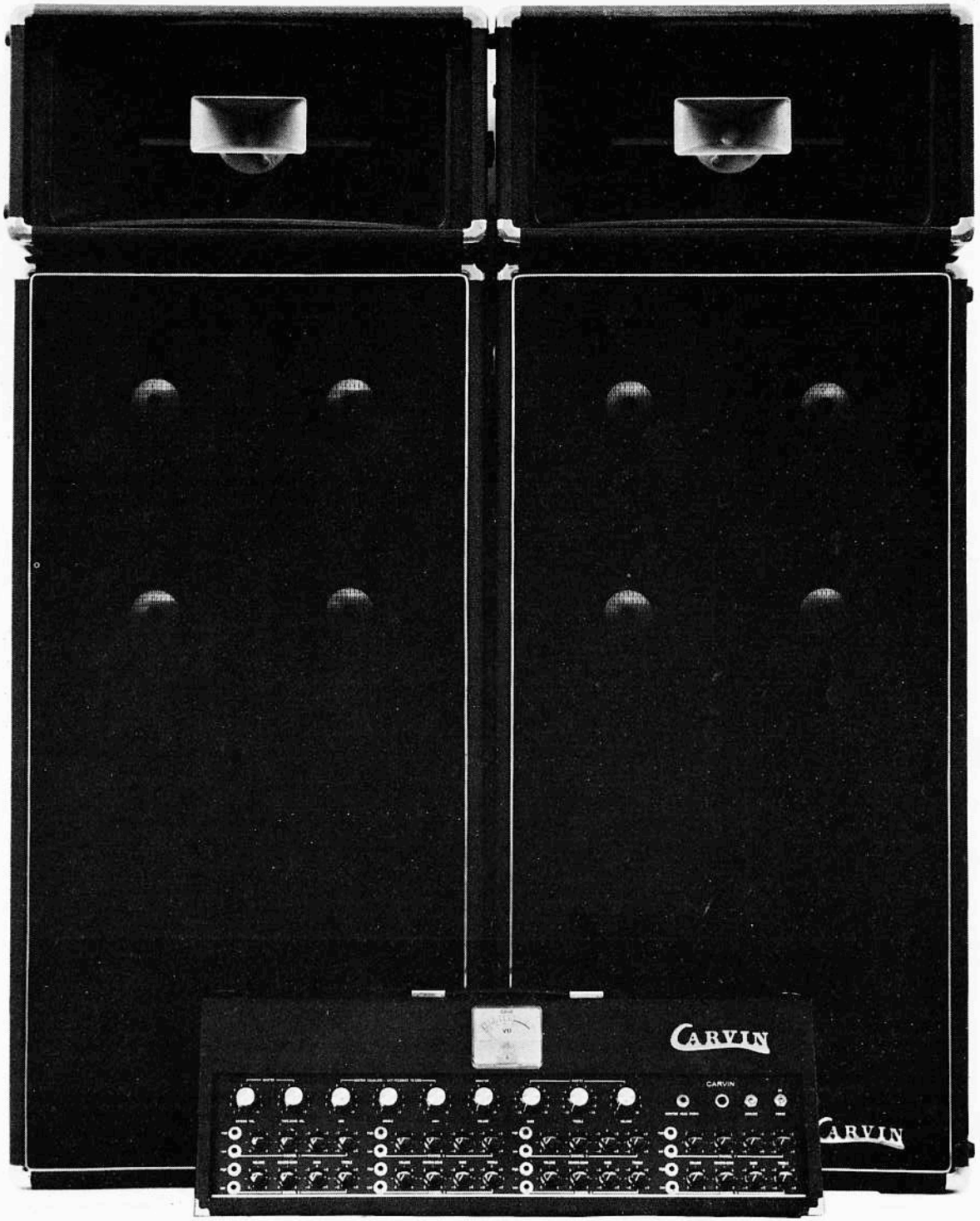
With the above speaker arrangement, the Stage III speaker system develops approx. 2 db more acoustic volume with a much fuller tone than most any other high priced P.A. speaker system available today. For more information on speaker specifications, read pages 21 and 23. SIZE: Power Mixer 30x12x10, Speaker Bottoms 24x12x48, Horns 24x23x12. WEIGHT: 330 lbs.

The STAGE III SOUND SYSTEM includes ONE P5000 Power Mixer, TWO PS860 Speaker Bottoms with Crossover Networks, TWO EV 868 Electro Voice Horn Projectors with Crossover Networks, and all Connecting Cords.

STAGE III Mfg. Direct Price $1099.95 List $1995.00

The PB2000 POWER BOOSTER SYSTEM for add-on RMS power and speaker coverage to the Stage III Sound System, consists of One S-500 200 Watt RMS (600 Watts Peak) Power Slave Amp, Two PS860 Speaker Bottoms, Two EV868 Electro Voice Projection Horns and all connecting cords to the Stage III System.

PB2000 Mfg. Direct Price $889.95 List $1650.00



4 Channel Professional Power Mixer

The P2500 and P4500 P.A. Power Mixers are designed to deliver crisp, clean vocal and instrument power for groups that only require 4 Channels but demand natural voice and instrument reproduction with no distortion. The P2500 is primarily designed for school auditoriums and clubs, while the P4500 delivers tremendous distortion-free power for most all outside stages. These power units will adapt to any high quality speaker systems with excellent results.

P2500 and P4500 CONTROL IDENTIFICATIONS

Eight Balanced Input Jacks – Two for each channel, Four Independent Volume Controls – One for each Channel, Eight Bass and Treble Controls, One Set for each Channel, Four Reverb Off and On Switches – One for each Channel. One Master Reverb Control, One Master Volume Control. POWER CONTROLS INCLUDE: Off-on Switch, Ground Switch, Pilot Light, Fuse Post, Heavy Duty A.C. Cord, Two Standard Speaker Output Jacks, Monitor-Power Slave Output Jack, Tape Recorder Output Jack. AMP PROTECTION: Primary Fuse and Electronic Curcuit Breaker protects amp against shorted speaker wires or the removal of the speakers while the amp is on or being played through. CABINET CONSTRUCTION: Heavy ¾" Laminated Plywood with Non-Scratch Heavy Duty Black Vinyl covering and protective chrome metal corners.

GUARANTEE: TWO YEARS on all Parts and Labor.

P4500 SPECIFICATIONS: Sound coverage intended for blasting performance in large discotheques, auditoriums, and outside stages. The P4500 is a modular power unit designed to develop maximum RMS and Peak Power at 2 ohms instead of the usual 4 ohms. POWER OUTPUT AT 2 OHMS: 200 Watts RMS with less than 1% distortion (600 Watts Peak). POWER OUTPUT AT 4 OHMS: 150 Watts RMS with less than 1% distortion (400 Watts Peak). SPEAKER OUTPUT IMPEDANCE: 2 thru 16 ohms. The P4500 will drive the following speaker systems wired in parallel: Eight 16 ohm or Four 8 ohm, or Two 4 ohm speaker systems. FREQUENCY RESPONSE: 20 to 20,000 cps ± 3 db at full power. BASS AND TREBLE BOOST AND CUT: ± 17 db for each control. INPUT IMPEDANCE: 150 ohms to 50,000 ohms with no sensitivity or tone change between high or low impedance. SENSITIVITY: 5 mv at 1k for full output (high or low impedance). HAMMOND REVERB: 10-40 milliseconds with a total of 1.6 sec. tone delay. POWER REQUIREMENTS: 120 VAC 50-60 cps. SIZE: 29x10x10. WEIGHT: 45 lbs.

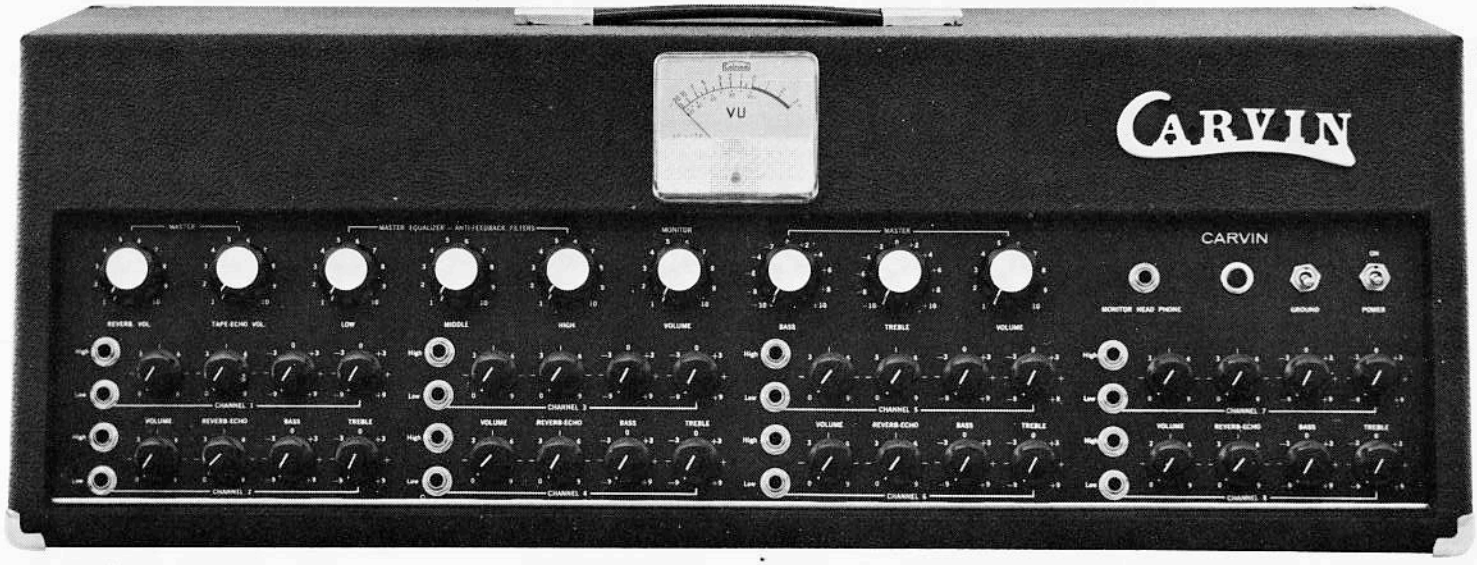
P4500 Wholesale Price $309.95 List $699.95

P2500 SPECIFICATIONS: Sound Coverage intended for night clubs, auditoriums, churches, and some outside stages. POWER OUTPUT AT 4 OHMS: 110 Watts RMS with less than 1% distortion (300 Watts Peak) SPEAKER OUTPUT IMPEDANCE: 4 thru 16 ohms. The P2500 will drive the following speaker systems: Four 16 ohm, Two 8 ohm, or One 4 ohm speaker systems. FREQUENCY RESPONSE: 20 to 20,000 cps. BASS and TREBLE BOOST and CUT: ± 17 db for each tone control. INPUT IMPEDANCE: 150 to 50,000 ohms with no sensitivity or tone change between high and low impedance. SENSITIVITY: 5mv at 1K for full output (high or low impedance). HAMMOND REVERB: 10-40 milliseconds with a total of 1.6 sec. tone delay POWER REQUIREMENTS: 120 VAC 50-60 cps SIZE: 29x10x10". WEIGHT: 34 lbs.

P2500 Mfg. Direct Price $239.95 List $495.95

No. CV-13 Optional Heavy Black Vinyl Cover with reinforced nylon backing for the P2500 and P4500 Power Mixers $10.00

8 Channel Professional Power Mixer



The Professional 8 Channel P5000 Power Mixer delivers a full 270 Watts RMS with less than 1% distortion (700 Watts Peak) at 2 ohms for groups that demand broadcast quality sound at tremendous volume levels. The outstanding feature of this power mixer is its simple control panel which offers precise channel mixing and tone compensation along with all the required features such as Acoustic Equalizers, Monitor Outputs, and Special Sound Effects for the largest concerts. The P5000 may be used with all high quality speaker systems for excellent results.

INDIVIDUAL CHANNEL FEATURES & FUNCTIONS

INPUT JACKS — Each Channel has two input jacks, One for High Impedance (25K ohms to 100K ohms) and One for Low Impedance (150 ohms to 600 ohms) with balanced or unbalanced lines. Both jacks may be used at the same time without effecting tone or volume levels for a total of 16 inputs.

VOLUME CONTROLS — Each Channel incorporates its own volume control which is totally independent from all other volume controls.

BASS & TREBLE CONTROLS FOR EACH CHANNEL are of a wide range type which compensates for all tonal deficiencies. These controls feature a center 0 setting which denotes the natural instrument tone. All numbers to the right indicate tone boost and all numbers to the left indicate tone substraction. Also, these controls compensate forReverb tone deficiencies.

REVERB-ECHO CONTROLS — Each Channel has its own Reverb-Echo Control which allows for the exact amount of Reverb and (or) Tape-Echo desired in each channel.

MASTER CONTROLS AND FUNCTIONS

The MASTER REVERB CONTROL controls the built-in Hammond Reverb System which produces a 10-40 milliseconds tone decay with a total of 1.6 tone delay for an unsurpassed concert-hall realism without the tone loss found in most reverb systems. The Master Reverb controls reverb for all 8 channels.

The MASTER TAPE-ECHO CONTROL — The Master Tape-Echo controls an optional tape echo machine which can be plugged into the rear of the P5000 for special voice repeating effects or for a Les Paul recording effect. We recommend the Maestro Sireko ES-1 tape-echo machine for lasting, high quality reproduction as found on page 31. Also, both the Tape-Echo and Reverb effects may be used at the same time for unbelievable effects. The Master Tape-Echo controls all 8 channels.

MASTER EQUALIZERS — Three Master Equalizers allow precise acoustical tuning of all speaker systems and power mixer to each individual concert Hall and stage as each auditorium and stage has it own acoustical response which should be compenstated for. If P.A. components are not acoustically tuned to surrounding areas, tone difficiency may occur at certain frequencies along with feedback problems. This is where elimination of feedback is also controlled. Three Master Controls accomplish all necessary tuning. The Low Master covers all frequencies from 20 to 300 cps. The Middle Master covers all frequencies from 300 cps to 4,000 cps. The High Master controls all frequencies from 4,000 to 20,000 cps.

The MASTER MONITOR CONTROL — This controls all monitor volume levels for monitoring on stage. Tape-Echo and Reverb are included in monitor playback. The P5000 is designed to be used with a powered monitor such as the PM250 found on page 20 or any self-contained amp with speakers.

The MASTER BASS AND TREBLE CONTROLS are designed for precise tone adjustments over the entire mixer including Reverb and Tape Echo Effects. These extended range controls add or substract considerable bass or treble tones (± 17db). Also, these controls feature a center) setting which denotes the natural (flat) instrument tone.

The MASTER VOLUME CONTROL offers complete volume control over the entire mixer and power amp.

A MONITOR HEADPHONE JACK provides for complete monitoring of all channels plus special sound effects. The monitor headphone jack is designed for stereo headphones.

PRECISION V.U. METER: An Expanded scale 3½" V.U. meter is designed to monitor all volume levels, mix individual channels, and prevent overloading of the pre-amp stage into the power amp. The easy to read V.U. meter features a precision AlnicoV movement with two jewels for dependable — accurate readings. A reference level switch is featured on the rear panel.

PILOT LIGHT, GROUND SWITCH, AND POWER SWITCH are located on front panel for easy indication and use.

All Parts and Servicing Labor on Power Units are unconditionally guaranteed for TWO YEARS

P5000 REAR PANEL OUTPUT FUNCTIONS

One Output Jack is provided for Headphone Monitoring. One Output Jack is provided for Recording into any conventional tape recorder. Two Output Jacks are featured for Powered Monitors for back stage monitoring. Two Jacks (one IN and One OUT) are featured for Power Slave add-on Systems for tremendous, additional power output. Two Output Jacks are provided for hookup to any speaker systems ranging from 4 to 16 ohms each.

P5000 SPECIFICATIONS

POWER OUTPUT: 270 Watts RMS with less than 1% distortion (700 Watts Peak) at 2 ohms. 170 Watts RMS with less than 1% distortion (475 Watts Peak) at 4 ohms. FREQUENCY RESPONSE: 20 to 22,000 cps. SPEAKER OUTPUT IMPEDANCE: 2 thru 16 ohms with the ability to drive the following speaker systems wired in parallel: Eight 16 ohm, Four 8 ohm, or Two 4 ohm speaker systems. More systems may be added if wiring is changed. INPUT IMPEDANCE: 150 to 100,000 ohms with no sensitivity or tone change between high or low impedance inputs. SENSITIVITY: 3mv at 1 K for full output (high or low impedance). POWER REQUIREMENTS: 120 VAC 50-60 cps. SIZE: 30x12x10". WEIGHT: 50 lbs.

P5000 Mfg. Direct Price $449.95 List $989.95

No. CV-19 — Optional Heavy Black Vinyl Cover with reinforced nylon backing for P5000. $10.00

Power Monitors & Power Slaves

POWER MONITOR

The PM250 Power Monitor is designed for all P.A. Sound Systems including the CARVIN P.A. Stages I through III. This power monitor features both power and speakers in one cabinet for easy portability. The PM250 delivers a clean, high quality power for all monitoring requirements on stage. This monitor may be plugged into any P.A. Sound System that features an output jack for recording, power slave, aux. amp, monitoring, etc. Monitor volume is controlled by the LEVEL Control on the front panel. When used with the Carvin P5000 power mixer or other power mixers with a master monitor control, the level control on the PM250 is turned full on and all monitoring volume is controlled from the power mixer. The PM250 also features an aux. speaker jack for the RM100 remote monitor speaker system which can be placed on the opposite side for monitoring on both sides of the stage. The PM250 may also be used for boosting the power of smaller guitar amplifiers with excellent results by simply plugging the output of the speakers of the smaller amp into the Low Impedance jack on the rear of the PM250.

SPECIFICATIONS: The PM250 delivers a full 80 Watts RMS with less than 1% distortion (220 Watts Peak). This is ample power for any monitoring requirements even when used on the largest stage with the RM100 remote speaker system. Two Heavy-Duty 12" CTS speakers #1221 are featured in the PM250 cabinet for excellent sound reproduction of all instruments. These speakers have a very efficient output which means more sound per watt. For 120 VAC 50-60 cps. SIZE: 25x10x21. WEIGHT: 60 lbs.

PM250 Mfg. Direct Price $209.95 List $369.95

REMOTE MONITOR SPEAKER SYSTEM

The RM100 remote monitor speaker system is designed for more back stage coverage when used with the PM250 Monitor. RM100 may also be used with the MS212 and MB212 Guitar Amps for more speaker coverage. The RM100 consists of Two Heavy-Duty 12" CTS #1221 Instrument speakers in an open back cabinet designed for easy portability.

RM100 Mfg. Direct Price $109.95 List $179.95

No. CV-12 Optional Heavy Black Vinyl Cover with reinforced nylon backing for PM250 and RM100. $12.00

POWER SLAVES

The S500 and S260 POWER SLAVES are designed for groups that need considerably more distortion-free power added to their present Guitar Amp, Bass Amp or P.A. system. The S500 and S260 Power Slaves are essentially Wide-Range, High Quality basic power amps, without pre-amp stages, which can be added to any amplifier with a pre-amp output, slave output, or aux. amp output jack. Also, a special low impedance input jack on the rear panel on both the S500 and S260 allows a direct hookup to be made with any speaker system for exact sound duplication. This is especially desired if a musician wants to amplify the same sound from his present amp such as natural tube distortion. Both S500 and S260 require speaker systems to complete an add-on system.

S500 SPECIFICATIONS: This unit is designed to be used with any large outdoor P.A. Sound System or Amplifier for tremendous add-on power. POWER OUTPUT: 200 Watts RMS with less than 1% distortion into a 2 ohm load. PEAK POWER: 600 Watts SPEAKER OUTPUT IMPEDANCE: 2 to 16 ohms. (will drive as many as EIGHT 16 ohm, Four 8 ohm, OR Two 4 ohm speaker systems). FREQUENCE RESPONSE: 20 to 20,000 cps. ± 3db. SENSITIVITY FOR FULL OUTPUT: .75 VAC for high level input and 10 VAC for low impedance input. Output is fully adjustable by a Level Control on Front Panel. INPUT IMPEDANCE: 5K to 100K ohms. Low Impedance Input 2 to 16 ohms. For 120 VAC 50-60 cps WEIGHT: 38 lbs. SIZE: 24x10x10".

S500 Mfg. Direct Price $219.95 List $459.95

S260 SPECIFICATIONS: This unit is designed to be used with P.A. Sound Systems or Guitar & Bass Amplifiers for add-on power. POWER OUTPUT: 110 Watts RMS with less than 1% distortion into a 4 ohm load. PEAK POWER: 300 Watts. SPEAKER OUTPUT IMPEDANCE: 4 to 16 ohms. (will drive as many as Four 16 ohm, Two 8 ohm. or One 4 ohm speaker systems. FREQUENCY RESPONSE: 20 to 20,000 cps. SENSITIVITY FOR FULL OUTPUT: .75 VAC for high level input and 10 VAC for low impedance input. Output is fully adjustable by Level Control on Front Panel. INPUT IMPEDANCE: 5K to 100K ohms. Low Impedance Input 2 to 16 ohms. For 120 VAC 50-60 Cps. SIZE: 24x10x10". WEIGHT: 29 lbs.

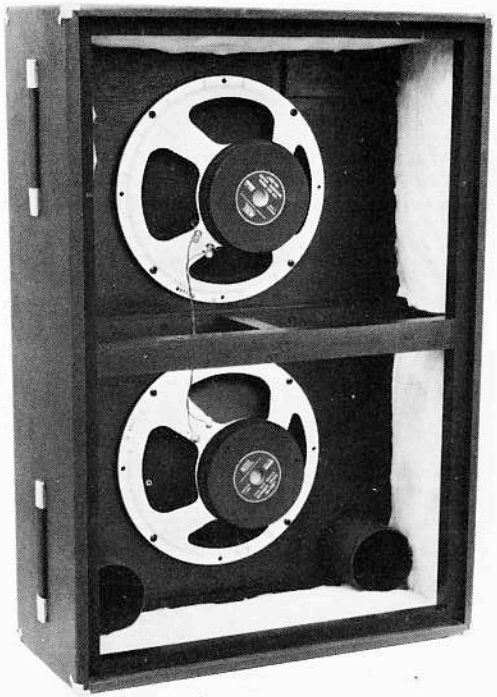
S260 Mfg. Direct Price $149.95 List $299.95

WARRANTY and ACCESSORIES

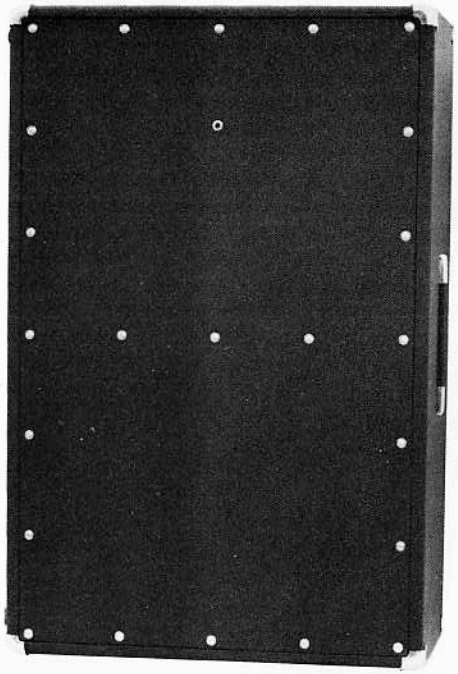
All Parts and Labor on POWER UNITS are unconditionally guaranteed for TWO YEARS — Speaker Systems ONE YEAR. Each amp is sound-tested and complete with Operating and Self-Service Instructions, Wiring Schematic and Connecting Cord.

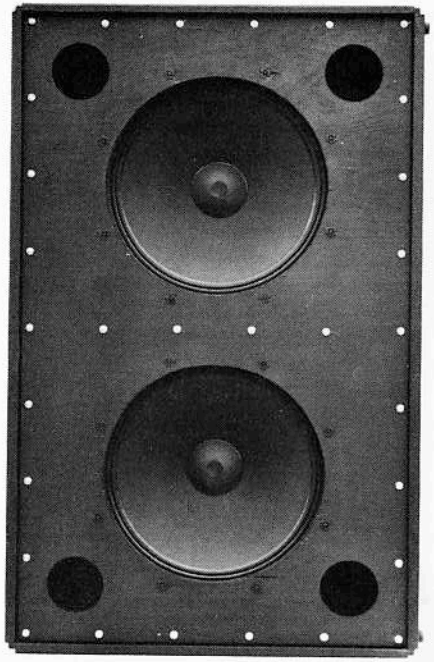
No. CV-14 Optional Heavy Black Vinyl Cover with reinforced nylon backing for S260 and S500 Power Slaves. $10.00

Cabinetry Features



Displaying internal bracing





BR850 with grill removed

All Cabinetry Sold by the Carvin Mfg. Co. is made from the finest materials available. This along with handcrafted workmanship brings you one of the most durable and best looking cabinets available today.

SPECIAL FEATURES

* All Cabinetry is constructed from Premium Hardcore Plywood which holds sound resonance to a minimum while offering excellent ridigity. We do not use partical board or pine as some name brand companies do. All corners and joints are Glued and Lock-Jointed together for rattle free construction. All speaker cabinetry incorporates heavy side and center braces to eliminate baffle and back vibrations.

* All Speaker Enclosures are Tuned for a Maximum Balanced output eliminating dead or flat notes. Bass Speaker Systems are a Bass Reflex type which uses tuning ports to reinforce all lower frequencies. (Tuning Ports allow the Trapped sound inside the cabinet to be released in phase with the sound coming out the front). This feature greatly adds to the reinforcement of all frequencies below 150 cps. All speaker enclosures are lined with 4" fiberglas to dampen resonant frequencies which can cause unwanted sound peaks.

* All Cabinetry is Hand-Sanded before a heavy 28 oz. Black Anti-Scratch Vinyl is applied. This vinyl is highly resistant to scratches and tearing and will maintain its high luster for Life under all normal handling conditions. Large Wrap-Around Steel Corners help protect cabinetry. Heavy Duty Handles with steel band centers will not break. All Hardware is Chrome Plated. The Black Grill is a Heavy Tear-Resistant Vinyl which is surrounded by a Chrome molding which is lined with felt to prevent it from rattling.

High Power Speakers and Horns

The Electro Voice EV868 COMPOUND DIFFRACTION PROJECTOR HORN (Shown on page 17 with Stage III Sound System) is designed for the greatest possible intelligibility for speech and music reproduction. This horn can be used with any quality P.A. System with outstanding results. The EV868 Compound Horn is actually two horns in one. A large horn designed to reproduce tones below 2,000 cps is coupled to the rear of the driver diaphragm. This horn reproduces the lower tones with high efficiency but will not reproduce tones above 2,000 cps. A small horn coupled to the front of the diaphragm is designed to reproduce only the tones above 2,000 cps. With this combination of two horns, each horn can be designed to reproduce its own range of frequencies without compromise. The result is extra smooth, peak-free response throughout the entire voice and music range. Use of the compound principle in horn design results in a dramatic reduction of distortion - particularly at high frequencies. When very high frequencies are reproduced through a horn designed for low frequencies, distortion is the inevitable result, particularly at high power levels. By dividing the range and using two horns, distortion is drastically reduced. Actual distortion for the EV868 Horn with 30 watts power input measured less than 1% while distortion for other reentrant type horns measured up to 8% under similar test conditions. Because of its high efficiency and low distortion factor, the EV868 Horn is one of the best horns available today. EV868 SPECIFICATIONS: FREQUENCY RESPONSE: 250 to 18,000 cps SOUND PRESSURE LEVEL: 122 db at 4' with 30 watts RMS Input. POWER CAPACITY: 65 Watts (may be used with amplifiers up to 275 Watts RMS when used with accompaning 500 cps crossover network) IMPEDANCE: 8 Ohms. DISPERSION: 120° Horizontally, 90° Vertically. CROSSOVER NETWORK: 500 cps - Fully adjustable with an Amplifier Input Jack and a speaker Output Jack to Bass Speaker system. SIZE: 24x12x23" WEIGHT: 40 lbs.

EV868 HORN & 500 cps CROSSOVER — Mfg. Direct Price $129.95, List $239.95

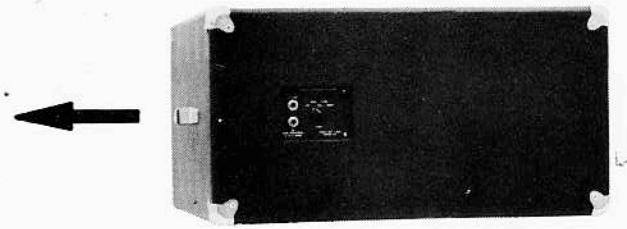
No. CV-17 Optional Heavy Black Vinyl Cover for EV868 $12.00

CTS SPEAKERS are one of the best valued speakers for your dollar. These speakers are designed for continuous peak power handling, holding natural tones under stress, and maintaining high output efficiency per watt.

These same speakers are used by many high priced amplifier companies which identify these speakers as their own Special Designed speaker. The Carvin People have used Jensen, Utah and True-Sonic speakers in past years and have found CTS to be superior in both performance and reliability. Special Features in all CTS speakers: 1. Aluminum Nomax Voice Coils for continuous heat dissipation, 2. Thermosetting adhesives throughout the Voice Coil and Cone Neck Joint for continuous power handling capacities, 3. Barrium ferrite magnets for maximum power efficiency, 4. Vented Aluminum dones to relieve air pressure and heat generated in Voice Coil area, 5 Heavy Steel Frames.

The Electro Voice EV30A MID-RANGE HORN is featured in the Ps800 and other Carvin speaker systems for a smooth natural instrument amplification of all middle and high frequencies. A precision voice coil assembly and a powerful 3¼ lbs. ferrite magnet structure eliminates harsh and raspy sounds which are found in other horns The high efficient magnet structure also delivers excellent output which means more volume per watt. Because of this factor, the EV30A will raise the acoustic sound level of any speaker system 1½ db which is the equivalent of adding ¼ more RMS power in the upper frequency range. (Note: All Mid-range Treble Horns are designed for P.A. Systems and Lead Guitar Amps - Not bass guitar systems). SPECIFICATIONS: FREQUENCY RESPONSE: 500 to 15,000 cps. POWER HANDLING CAPACITY: 40 Watts (may be used with amplifiers up to a rating of 175 Watts RMS or less when used with a crossover network). IMPEDANCE: 8 ohms. SIZE: 11" wide 6" high and 10" deep.

EV30A — Mfg. Direct Price $34.95 — List $59.95



Rear of EV868 displaying Crossover

ALTEC LANSING SPEAKERS are designed for the musician who desires the ultimate sound reproduction from his speaker. The Altec Speakers are built to take the highest audio levels without breaking up. And they will deliver crisp, brilliant highs and full, clean lows. Special Features Include: 1. Heavy Die Cast Frames, 2. Three inch Voice Coils which can withstand temperatures up to 300 degrees without failure, 3. Edge wound Copper Ribbon Voice Coils. 4. Massive Alnico V and Ceramic, Barrium Magnet Structures.

SPEAKER WARRANTY

All speakers (Altec Lansing and CTS) are guaranteed against Workmanship, Rubbing Voice Coils, Open Voice Coils and Defective Cones for a period of ONE YEAR.

SPEAKER SPECIFICATIONS

MAKE	MODEL NO.	SIZE	DESIGN	IMPEDANCE	MAGNET STRUCTURE	RMS WATTS	PEAK WATTS	LIST	OUR PRICE
CTS	#1020	10"	Lead Guitar	8 ohms	3¼ lbs	50	100	$34.95	$22.00
CTS	#1221	12"	Full Range	8-16 ohms	7 lbs	75	150	49.95	34.00
CTS	#1502	15"	Full Range	8 ohms	7½ lbs	80	160	59.95	39.00
CTS	#1860B	18"	Bass Only	8 ohms	14 lbs	110	220	99.95	69.95
Altec	#417C	12"	Full Range	8 ohms	10½ lbs	90	180	89.00	69.95
Altec	#418B	15"	Full Range	8 ohms	10½ lbs	100	200	99.00	79.95
Altec	#421A	15"	Bass Only	8 ohms	17½ lbs	110	220	116.00	92.95

All Replacement Speakers Include 1 YEAR Guarantee

High Power Speaker Systems

The FL950 Folded Horn Speaker System is designed for the ultimate in bass guitar reproduction for the largest outdoor concerts. This system develops approx. 25% more acoustical volume with a deeper, fuller tone than our AL915 Altec Lansing Bass System. Two Bass 15" Folded Horn speakers equivalent to the Vega 153-W are used in the most efficient bass cabinets offered today for maximum obtainable reliability with maximum power output. POWER CAPACITY: 250 Watts RMS (500 Watts Peak) under continuous playing conditions. IMPEDANCE: 4 Ohms. SIZE: 32x18x48". WEIGHT: 160 lbs. Complete with casters. For technical information, read page 8. Note: Recommended for Bass Guitar Only.

FL950 Mfg. Direct Price $329.95 List $649.95

The AL915 Bass Speaker System features Two Altec Lansing high efficient 421A Bass speakers for excellent bass guitar reproduction. This system delivers approx. 20% more acoustic volume than our TR200 speaker system which features two 15" CTS Bass Speakers. Both 421A Speakers are housed in a 10 cu. ft. Bass Reflex enclosure which is tuned for a smooth, balanced output over the entire bass range. POWER CAPACITY: 220 Watts Rms (450 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 30x15x48". WEIGHT: 120 lbs. Note: Recommended for Bass Guitar only.

AL915 Mfg. Direct Price $299.95 List $549.95

The BR850 Bass Speaker System delivers tremendous bass power with a superb deep bass tone for all bass instruments. This system develops slightly more acoustical volume than the Altec AL915 Bass system along with a deeper, fuller bass tone. Two Heavy-Duty 18" CTS #1860B Bass Speakers are featured for exceptional power handling capacities and efficiency. These speakers are housed in a 10 cu. ft. Bass Reflex enclosure which is tuned for a smooth, balanced output over the entire bass range. POWER CAPACITY: 220 Watts RMS (450 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 30x15x48 WEIGHT: 110 lbs. This system is one of the best performance values per dollar considering its overall performance. Note: Recommended for Bass Guitar only.

BR850 Mfg. Direct Price $259.95 List $529.95

The TR200 Speaker System features Two Heavy-Duty 15" CTS #1502 Instrument Speakers in a Tuned Bass Reflex Cabinet for above average output with a deep bass tone for all instruments. The TR200 System is designed for the musicians who are primarily concerned with tonal quality and do not wish to carry large, heavy speaker systems. POWER CAPACITY: 160 Watts RMS (320 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 24x12x38" WEIGHT: 70 lbs. NOTE: Recommended for either Bass or Lead Guitar.

TR200 Mfg. Direct Price $159.95 List $299.95

The AL900 Speaker System is primarily designed for Lead Guitar. This System features Two High Quality 418B Altec Lansing Full Range Instrument Speakers which are noted for their high efficiency which means more sound per watt. Also, One EV30A Electro Voice Midrange-Treble Horn is featured for considerably more midrange and treble power if desired. The AL900 features an electronic crossover along with an OFF-ON switch for the EV30A Horn. Both 418B speakers are housed in a tuned cabinet for a smooth, balanced output which can also be used for bass guitar with good results. POWER CAPACITY: 200 Watts RMS (400 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 24x12x48" WEIGHT: 105 lbs.

AL900 Mfg. Direct Price $319.95 List $559.95

The PS800 Full-Range Speaker System is primarily designed for P.A. Systems. However, because of its excellent full-range output, the PS800 works exceptionally well as a Lead Guitar system. High efficient output is obtained from 3 different speaker types which are controlled by an electronic crossover network. One EV30A Midrange-Treble Horn, Four Heavy-Duty 10" CTS #1020 speakers, and One Heavy-Duty 15" CTS #1502 Bass Speaker are featured in a Tuned Bass Reflex enclosure. The Wide Frequency range (30 to 15,000 cps) assures the greatest intelligibility for any instrument. The EV30A features an OFF-On control. POWER CAPACITY: 180 Watts RMS (400 Watts Peak) IMPEDANCE: 4 Ohms. SIZE: 24x12x48". WEIGHT:100 lbs. NOTE: The Bass guitar may be used for fair results without damage to speakers.

PS800 Mfg. Direct Price $239.95 List $419.95

The SR660 Speaker System features 4 Heavy-Duty 12" CTS #1221 Instrument Speakers and One EV30A Electro Voice Midrange—Treble Horn for excellent, responsive Lead Guitar Playing. This system is especially designed for musicians that desire only 12" speakers for responsive power. Also, the EV30A features an OFF-ON control for adjusting the treble response. If the EV30A Horn is not desired, specify and substract $34.95 from the factory direct price. POWER CAPACITY: 180 Watts RMS (400 Watts Peak) IMPEDANCE: 4 Ohms. SIZE: 30x15x48". WEIGHT: 110 lbs. NOTE: The Bass Guitar may be used for fair results without damage to speakers.

SR660 Mfg. Direct Price $239.95 List $419.95

The GR500 Speaker System is primarily designed for the musician that requires a speaker system that can double for a bass or lead guitar system. This full range system features Two Heavy-Duty 15" CTS #1502 Bass Speakers and One EV30A Midrange-Treble Horn housed in a Tuned Bass Reflex enclosure for good bass reproduction and excellent Midrange-Treble response. The EV30A features an OFF-ON control for adjusting the treble response. The GR500 is a good, efficient system for all types of instruments. POWER CAPACITY: 160 Watts RMS (320 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 24x12x48. WEIGHT: 90 lbs.

GR500 Mfg. Direct Price $219.95 List $389.95

The D400 Speaker System is primarily designed for the musician who desires 10" speakers for responsive lead guitar playing. Six Heavy-Duty 10" CTS #1020 Instrument Speakers are featured in a compact sealed enclosure for excellent lead guitar response. The outstanding feature of the D400 is its high efficient output from a portable enclosure for musicians who do not wish to haul large, bulky speaker systems. POWER CAPACITY: 175 Watts RMS (350 Watts Peak) IMPEDANCE: 4 Ohms. SIZE: 24x12x38". WEIGHT: 80 lbs.

D400 Mfg. Direct Price $179.95 List $329.95

The PS860 Speaker System is primarily designed for the Stage III P.A. Sound System for tremendous bass and midrange power. However, this same system may also be used for rhythm or Lead guitar with good results. The PS860 features 4 Heavy-Duty 10" CTS #1020 Instrument speakers and One Heavy-Duty 18" CTS #1860B Bass Speaker for exceptional midrange and deep bass power. These speakers are housed in a Tuned Bass Reflex cabinet for a smooth, balanced output of all lower and middle frequencies. POWER CAPACITY: 200 Watts RMS (400 Watts Peak). IMPEDANCE: 4 Ohms. SIZE: 24x12x48". WEIGHT: 110 lbs.

PS860 Mfg. Direct Price $229.95 List $439.95

The PS300 is a Full-Range Speaker System designed for portable high quality P.A. Sound Systems. This same system may also be used for lighter lead and Bass guitar playing with exceptional results. The PS300 features One EV30A Electro Voice Midrange-Treble Horn and Two Heavy-Duty 12" CTS #1221 Bass Speakers in a Tuned enclosure for good frequency coverage of all instruments. The EV30A Horn also features an OFF-ON control for adjusting treble response or using a bass guitar. POWER CAPACITY: 140 Watts RMS (300 Watts Peak) IMPEDANCE: 8 Ohms. SIZE: 24x12x38". WEIGHT: 75 lbs.

PS300 Mfg. Direct Price $159.95 List $299.95

WARRANTY and ACCESSORIES

All Speaker Systems are guaranteed for ONE YEAR against defective cones, magnet assemblies, rubbing and opened voice coils.

Optional Heavy Black Vinyl Covers with reinforced nylon backing are featured for the following speaker systems: #CV15 COVER for the PS300, TR200, and D400 at $13.00 ea. #CV-20 COVER for the GR500, PS800, PS860, and AL900 at $15.00 ea. #CV-30 COVER for the SR660, BR850, and AL915 at $16.00 ea. #CV-33 COVER for the FH950 at $20.00 ea.

All speaker systems are available with 4 optional Heavy-Duty 2½" Swivel Casters attached to bottom. Add $8.00 per cabinet and specify #CT-10 SWIVEL CASTERS. The FL950 is standard with casters.